

**TOSHIBA**



# HDD/DVD VIDEO RECORDER **RD-XS55KU**

OWNER'S MANUAL



## OPERATIONS GUIDE

Read "INSTALLATION GUIDE" first.

**IMPORTANT NOTE**  
Before connecting, operating, or adjusting this product, carefully read the Important Safety, Installation, Care, and Service Information in the INSTALLATION GUIDE.



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# Table of contents

## Introduction

■ Caution for safety .....	4
■ About this product .....	5
■ Choosing a disc .....	6
■ Index to parts and controls .....	12
Front panel .....	12
Rear panel .....	14
Remote control .....	16
Display .....	18
■ Before operating this recorder .....	20
■ Using TV Guide On Screen® .....	23
Services and options .....	24
■ Key operation - EASY NAVI & QUICK MENU ..	29

## Recording

■ Before recording .....	32
Initializing a DVD-RAM/RW disc (Logical format) ....	34
DVD-RAM physical format .....	35
Entering characters .....	36
Selecting a disc according to purposes of use (DVD-RAM/R/RW) .....	38
Setting for recording on a DVD-R/RW disc in Video mode .....	39
■ Setting a timer recording using TV Guide On Screen® .....	40
With recording frequency selection only .....	40
Changing the recording options .....	41
Setting recording by specifying details manually .....	43
Setting recording (For satellite box users) .....	43
■ Recording a TV program .....	45
■ Recording an external source .....	49
■ DV recording (Recording from a digital video camera) .....	52
■ Deleting recorded contents .....	55
To delete a title (chapter) .....	55
Deleting multiple specified parts .....	55
■ Others .....	56
To protect recorded content .....	56
Relay recording .....	56
Technical Information .....	56

## Playback

■ Playing recorded contents (CONTENT MENU) .....	60
Playing at various speeds .....	62
■ Playing a DVD video disc .....	66
Locating a title using the top menu .....	66
■ Other playback functions .....	68
Pausing a TV broadcast to resume later (Pause TV) .....	68
Playing a TV program currently being recorded (Chase Play) .....	69
Zooming a picture .....	70
Watching a TV broadcast in the sub window (P in P playback) .....	70
Locating by entering the number of a desired section .....	71
Locating a specific point by entering its elapsed time (Time Search) .....	71
Selecting the sound .....	72
Viewing JPEG files .....	74
Playing MP3/WMA files .....	76
Checking the current status and settings .....	78
Functions in Quick Menu .....	80

## Editing

■ Creating your own title .....	84
Editing procedure .....	84
Basic flow .....	85
1: Changing a name of a recorded title .....	86
2: Dividing a recorded title into several chapters .....	87
3: Collecting necessary scenes .....	92
4: Dubbing to save .....	97
■ Creating a DVD-Video using DVD-R/RW .....	112
■ DVD-Video finalizing process .....	122
■ Other editing functions .....	126
Changing the picture on CONTENT MENU .....	126
Combining two titles (Original) into one .....	128

## Library

■ <b>Using Library data</b> .....	132
Basic operation of the Library system .....	132
■ <b>Searching for a desired title</b> .....	133
Changing the listing order .....	133
Searching .....	133
Jumping .....	134
■ <b>Viewing Library data</b> .....	135
Viewing title information .....	135
Viewing disc information .....	135
Maintenance of Library data .....	136
■ <b>Checking remaining space</b> .....	139
Viewing a number and space of a disc .....	139
Viewing remaining space .....	139

## Network Navi

■ <b>What is Network Navi?</b> .....	142
Main features of Network Navi .....	142
Flow of Network Navi setting .....	142
Operating environment .....	143
Terminology and trademarks .....	143
Restrictions and disclaimer .....	143
■ <b>Preparation for Network Navi</b> .....	145
1: Connection to a PC .....	145
2: Recorder's setup-Network setting .....	147
3: Setting up the PC .....	151
4: Starting Network Navi .....	152
5: Network Navi settings .....	153
■ <b>Network Navi features</b> .....	154
■ <b>Displaying thumbnails (Title List)</b> .....	155
■ <b>Operating with the remote control screen</b> ....	157
Net Keyboard .....	158
Operation using the Virtual Remote Control .....	159
■ <b>Using Library information (Library)</b> .....	160
■ <b>Setting for custom menu addition     (Custom Menu Editor)</b> .....	161
■ <b>Net Dubbing</b> .....	163
Dubbing to a device on the same network .....	163
■ <b>Net Monitor</b> .....	165

■ <b>Setting a timer recording using email</b> .....	168
Setting a timer recording by directly specifying the date, time, and channel .....	168
Useful features of timer recording setting using email .....	169
■ <b>If you are having a difficulty with Network     Navi features</b> .....	170

## Function setup

■ <b>Customizing the function settings</b> .....	172
DVD player settings .....	176
Picture/Audio settings .....	179
Display settings .....	181
Operational settings .....	182
DVD recorder operation .....	183
Management settings .....	186
Initial settings .....	187

## Others

■ <b>Before calling service personnel</b> .....	190
■ <b>Output sound conversion table</b> .....	192
■ <b>Error codes on the display window</b> .....	193
■ <b>Recording duration</b> .....	194
■ <b>Language code list</b> .....	195
■ <b>Specification</b> .....	196

# Caution for safety

**Read “SAFETY PRECAUTIONS”, “IMPORTANT SAFETY INSTRUCTIONS”, “Precautions” and all other sections of the “INSTALLATION GUIDE” that came with this product prior to reading this “OPERATIONS GUIDE”.**



# About this product

## Some differences

Because of its recording capability and hard disc drive (HDD), this DVD recorder operates more like a computer and differently than a standard DVD player. In addition to containing a microprocessor, it contains a HDD, an operating system, random access memory (RAM), and a DVD-RAM/RW/R drive. The operating system includes software stored on the HDD that is transferred to the RAM when the machine is turned on and at other times during operation. This transfer can take time. Therefore, when you turn the DVD recorder on, it may take a little while before it is ready to use. Likewise, other functions may not be performed as quickly as they would on other AV equipment. Additionally, because programs stored on the DVD-RAM/RW/R drive cannot be accessed as quickly as those stored on the HDD, accessing those programs (or deleting a program from a DVD-RAM disc) may take more time. Please take these factors into consideration as you use the DVD recorder.

## About the hard disc drive (HDD)

Like any HDD, the HDD in the DVD recorder is a fragile device that is susceptible to partial or complete failure if it is jarred or as a result of use over time. It will not last forever. Therefore, do not use the HDD for longer term storage of programs you wish to retain. [If portions of the HDD become damaged, programs recorded on those portions may exhibit pixelization or block noise when played back. Repeated playback of the program may cause the problem to get worse and, eventually, the program may become unplayable. Accordingly, if you notice such noise in a program that you want to save, you should transfer to a recordable DVD disc as soon as possible.] Recordable DVD discs are also susceptible to damage if not handled and stored carefully and some or all of the programs on them may become unplayable. You can reduce these risks by using high quality DVD recordable discs and checking their playability from time to time. If it becomes necessary to service your DVD recorder, it may be necessary to delete some or all of the programs on the HDD.

## Playback Restrictions

This owner's manual explains the basic instructions for this recorder. Some DVD video discs are produced in a manner that allows specific or limited operation during playback. As such, the recorder may not respond to all operating commands. This is not a defect in the recorder. Please refer to the notes on compatible discs later in this Introduction and to the discussion of DVD playback and features later in this manual.

“Ⓢ” may appear on the TV screen during operation.  
 “Ⓢ” means that the operation is not permitted by the recorder or the disc.

## Recording Restrictions and Copyright

Copy-protected contents of DVD-Video discs, VIDEO CDs or audio CDs on the market cannot be copied on this recorder. Contents without copy protection should be copied or edited only in accordance with applicable copyright laws, which may restrict copying or editing. Contents that permit single copying (copy once contents) can be recorded onto DVD-RAM discs, with some dubbing and editing restrictions. DVD-R/RW discs cannot record these contents.

The unauthorized recording, use, distribution, or revision of copyrighted materials including, without limitation, television programs, videotapes, and DVDs, is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

## Compatibility

In isolated cases, a disc bearing the DVD or CD logo may not fully and properly play back all features or as intended by the creator of the disc. This can be due, among other reasons, to problems and errors that can occur during the creation or recording of DVD and other software and the manufacture of software discs (including blank discs). Moreover, because of variations in the quality of discs, this recorder may not be able to record on all discs that bear a DVD-RAM, DVD-RW or DVD-R logo, but you should not encounter difficulty if you use only high quality recordable DVD discs. Additionally, discs recorded in this device may not operate properly in other DVD players, recorders and/or personal computer drives. If you happen to encounter difficulties playing or recording a DVD disc or playing a CD disc, please feel free to call our Customer Service Hotline at 1-800-319-6684.




# Choosing a disc

When you want to play DVD or CD software or copy programs from the HDD to a recordable DVD, load an appropriate disc into the recorder. There are many types and formats of discs. Please use the following information to select an appropriate disc.

## Notes

- Handle the disc according to the disc instruction manual.
- Because of problems and errors that can occur during the creation of DVD and CD software and/or the manufacture of DVD and CD discs, Toshiba cannot assure that this HDD/DVD Video Recorder will successfully play every disc bearing the DVD and CD logos. Additionally, Toshiba cannot assure that discs recorded in this HDD/DVD Video Recorder will successfully play in other DVD players, recorders and/or personal computer drives. If you happen to experience any difficulty playing a DVD and/or CD disc on this HDD/DVD Video Recorder, please contact Toshiba Customer Service.

## For recording / playback

Disc	Mark	Specification	Remarks
DVD-RAM		<ul style="list-style-type: none"> <li>• Single sided 4.7GB (12cm (4<sup>3</sup>/<sub>4</sub> in.))</li> <li>• Double sided 9.4GB (12cm (4<sup>3</sup>/<sub>4</sub> in.))</li> </ul>	<p>Read carefully the section "On DVD-RAM discs" (➡ page 8).</p> <p>Select a DVD-RAM disc that shows a statement on its package such as "this disc can be used with video recorders and drives compatible with 4.7GB DVD-RAM discs" or "this disc can copy images that permit single copying."</p>
DVD-R		<ul style="list-style-type: none"> <li>• 4.7GB For General Ver.2.0/2.1 (12cm (4<sup>3</sup>/<sub>4</sub> in.))</li> </ul>	<p>Read carefully the section "On DVD-R discs" (➡ page 9).</p> <p>Depending on the disc status or the recording equipment, playback of the disc may not be possible on this recorder.</p>
DVD-RW		<ul style="list-style-type: none"> <li>• Ver. 1.1 or later (12cm (4<sup>3</sup>/<sub>4</sub> in.))</li> </ul>	<p>Read carefully the section "On DVD-RW discs" (➡ page 9).</p> <p>Depending on the disc status or the recording equipment, playback of the disc may not be possible on this recorder.</p>

## Using different disc types for different purposes

### DVD-RAM discs for your personal library

DVD-RAM discs comply with the global standard DVD-VR (Video Recording) format, and are optimized for recording of TV programs. You can rewrite repeatedly without deterioration of an image quality, erase unnecessary parts, divide a chapter, or specify playback area by frame. Its cartridge is suitable for a longer-term storage and family use, and its large capacity of 9.4 GB allows more recording space.

### DVD-R/RW discs when creating your own original discs for distribution











DVD-R discs are designed to comply with the global standard DVD-Video format, and can be recorded only once. DVD-R discs are convenient when you edit your original content (recorded personal events such as a wedding party) with this recorder, transfer them to the recorder and make copies to send to your friends or relatives. The discs can be played on other compatible DVD players. DVD-RW discs, which are rewriteable, can be used as well.



\* DVD-R and DVD-RW may not be the best suited format for recording TV programs. Because of the way the discs are formatted, it may not be possible to edit or divide the program as you may prefer, to record secondary languages, or programs that are copy protected in a way that allows only one copy. (NOTE: "Copy once" protected programs generally can be recorded to DVD-RAM discs.)

\* This recorder records on a DVD-R/RW disc in DVD-Video format only.

\* On DVD-R/RW discs, direct recording, copying or the method "Creating a DVD-Video using DVD-R/RW" (➡ page 112) are available.

## For playback only

Disc	Mark	Specification	Remarks
DVD video disc	 	<ul style="list-style-type: none"> <li>12cm (4<sup>3</sup>/<sub>4</sub> in.) / 8cm (3<sup>1</sup>/<sub>4</sub> in.) Region number</li> <li>  or  </li> <li>Color system: NTSC</li> </ul>	The region number of this DVD recorder is 1. If region numbers, corresponding to a specific playable area, are printed on your DVD video disc and you do not find  or  , or the disc is encoded to permit playback only in regions other than Region 1, disc playback will not be allowed by the recorder.
VIDEO CD		<ul style="list-style-type: none"> <li>12cm (4<sup>3</sup>/<sub>4</sub> in.) / 8cm (3<sup>1</sup>/<sub>4</sub> in.)</li> <li>Color system: NTSC</li> <li>Version 1.1 and 2.0</li> </ul>	
Audio CD		<ul style="list-style-type: none"> <li>12cm (4<sup>3</sup>/<sub>4</sub> in.) / 8cm (3<sup>1</sup>/<sub>4</sub> in.)</li> </ul>	
CD-R		<ul style="list-style-type: none"> <li>12cm (4<sup>3</sup>/<sub>4</sub> in.)</li> <li>CD-DA (audio CD) format</li> </ul>	Depending on the disc status, playback may not be possible.
CD-RW			

- You cannot play discs other than those listed above.
- You cannot play non-standardized discs even if they may be labeled as above.
- You cannot play discs with specialized encoding (such as SACD discs) or the DVD audio portions of DVD Audio discs.
- This recorder uses the NTSC color system, and cannot play DVD video discs recorded in any other color system (PAL, SECAM, etc.), even if they have region marks  or .
- Toshiba cannot guarantee that all discs bearing the DVD or CD logos will operate as expected. Please see the discussion of compatibility on ➡ page 5.

- Toshiba is not liable for any damage or loss caused directly or indirectly by the malfunction of this recorder, including, without limitation, any one of the following:
  - Failure to record contents intended to be recorded by the consumer.
  - Failure to edit contents as intended by the consumer.
  - When a DVD-RAM/R/RW disc created on this recorder is used (e.g., insertion, playback, recording or editing) in another DVD player, recorder or personal computer drive.
  - When a DVD-RAM/R/RW disc that is used in the manner described in the immediately preceding bullet point is used again in this recorder.
  - When a DVD-RAM/R/RW disc that was recorded in another DVD recorder, or in a personal computer drive is used in this recorder.
- Some functions such as Library may not work with personal computer discs.
- Discs recorded in this recorder may not operate as expected on other DVD players, recorders or personal computer drives.

## On DVD-RAM discs

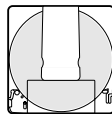
### ■ Use only DVD-RAM discs that comply with DVD-RAM standard Version 2.0, 2.1 or 2.2.

The recorder cannot record on a disc formatted in any other standard. When using such a disc, initialize it by using the disc-format function of this recorder.

- The recorder may not record, dub, or edit some DVD-RAM discs, because they are edited/recorded with another manufacturer's equipment or PC, contain a large number of titles, or have little remaining capacity. Also, a DVD-RAM disc may not be edited or recorded if its title contains still pictures.
- DVD-RAM discs formatted in UDF2.0 on a PC are not compatible with this recorder. Before using these discs, initialize them on this recorder.
- This recorder complies with current copyright protection technology and can copy a disc only when the disc permits copying once. When there is no indication on the disc, copying will not be allowed. Such an indication on a disc is required also for the Library Management database.

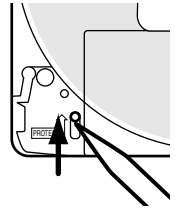
### ■ DVD-RAM discs with cartridges are recommended for recording.

- Two types of DVD-RAM discs are available: ones with cartridges and ones without cartridges. You can use either of them with this recorder, but the former ones are recommended.
- In order to record highly detailed data, make sure the disc is clean. DVD-RAM discs with cartridges are easier to handle in this regard.
- Do not open the cartridge shutter. The disc may not play, or may not be recorded or edited once it becomes dirty.
- There are two types of DVD-RAM cartridges; removable (TYPE 2/4) and not removable (TYPE 1). It is recommended you do not remove the disc even when you can.  
Refer to the instruction manual that comes with the disc if it is absolutely necessary to remove the disc.
- Some commercially available cartridge discs cannot be recorded or edited once the inside discs are removed.



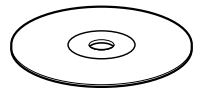
### ● To protect recorded contents

Slide the write-protect tab to "PROTECT" with something small enough. The disc can play, but cannot be edited or erased. Refer to the instructions that come with the disc.



### ■ When using a disc without a cartridge (commercially available discs)

- Discs without cartridges can easily attract fingerprints and dust, which is the reason they are not recommended. If you cannot avoid using them, handle with proper care.
- When you write in a title column on a disc, use a pen with a soft tip. Do not use a pen with a hard tip, such as a ballpoint pen.



### Recommended discs

The following discs have been tested with this recorder:

9.4 GB double-sided cartridge: Panasonic 2X, 3X, 5X

4.7 GB single-sided cartridge: Panasonic 2X, 3X, 5X

## On DVD-R discs

### ■ Standards

- DVD-R for General Ver.2.0 discs can be used for recording and playback.
- Discs compatible with the following recording speeds can also be used:  
Ver. 2.0/2X  
Ver. 2.0/4X  
Ver. 2.0 or 2.1/8X  
Ver. 2.0 or 2.1/16X
- Select discs labeled “for video,” “for recording,” “120 min.” etc.

### ■ Recording conditions

- Images for which copying is prohibited or restricted (copy once or copy prohibited) cannot be recorded. Even if the disc is labeled as CPRM compatible, this recorder can only be used to record copy-free material.
- DVD-VR mode recording is not possible.

### ■ Recommended discs

That's (Taiyo-Yuden) 4X, 8X  
Maxell 4X, 8X

## On DVD-RW discs

### ■ Standards

- Discs labeled DVD-RW Ver.1.1 or 1.2 can be used.
- Discs compatible with the following recording speeds can also be used:  
Ver. 1.1/2X  
Ver. 1.2/4X  
Ver. 1.2/6X
- Select discs labeled “for video,” “for recording,” “120 min.” etc.

### ■ Recording conditions

- Images for which copying is prohibited or restricted (copy once or copy prohibited) cannot be recorded. Even if the disc is labeled as CPRM compatible, this recorder can only be used to record copy-free material.
- DVD-VR mode recording is not possible.

### ■ Recommended discs\*

JVC 2X, 4X

\*Operation has been confirmed with recommended discs and tested disc, but some other discs may not be usable.

## Marks on DVD video discs

The following are examples of marks and the meanings.

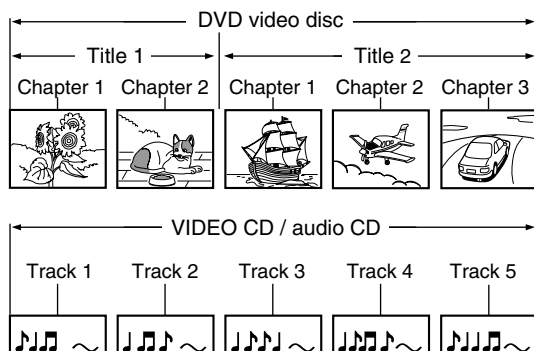
Mark	Meanings
	Number of audio streams recorded in the disc. (2 streams such as English and Japanese in this example.)
	Number of subtitle languages recorded in the disc. (2 subtitle languages are recorded in this example.)
	Number of camera angles recorded in the disc. (3 camera angles are recorded in this example.)
	Pictures are recorded in the standard picture shape (4:3 aspect ratio).
	Pictures are recorded in the letter box picture shape (4:3 aspect ratio with horizontal black bars in the top and bottom of pictures).
	Pictures are recorded in the 16:9 wide picture shape. TVs with 4:3 aspect ratio will display them in the letter box style.
	Pictures are recorded in the 16:9 wide picture shape. TVs with 4:3 aspect ratio will display them in the pan scan style (one or both sides of pictures are cut).
	Actual picture shape may vary depending on the aspect ratio or mode selection of the TV.

## Choosing a disc (Continued)

## Structure of disc contents

Normally, DVD video discs are divided into titles, and the titles are subdivided into chapters.

VIDEO CDs/audio CDs are divided into tracks.



**Title:** Divided contents of a DVD video disc. Roughly corresponds to a story title in short stories.

**Chapter:** Divided contents of a title. This corresponds to a chapter in a story.

**Track:** Divided contents of a VIDEO CD or an audio CD.

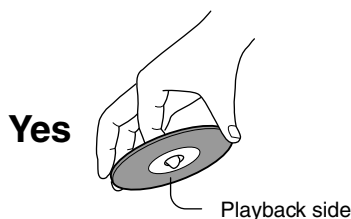
Each title, chapter, or track is assigned a number, which is called "title number", "chapter number", or "track number" respectively.

Some discs may not have these numbers.

When you record on the HDD or a DVD-RAM disc, one recording will always equal one title. You can divide a title into several chapters by marking borders in it to facilitate scene search.

## On handling discs

- Do not touch the playback side of the disc.



- Do not stick paper or tape to discs.



## On cleaning discs

- Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the center outwards with a soft cloth. Always keep the disc clean.



- Do not use any type of solvent such as thinner, benzene, commercially available cleaners or antistatic spray for vinyl LPs. It may damage the disc.

## On storing discs

- Do not store discs in a place subject to direct sunlight or near heat sources.
- Do not store discs in places subject to moisture and dust such as a bathroom or near a humidifier.
- Store discs vertically in a case. Stacking or placing objects on discs outside of their case may cause warping.

## Discs and purposes

The table shows main functions which are available on this recorder per disc category.  
This will help you choose discs.

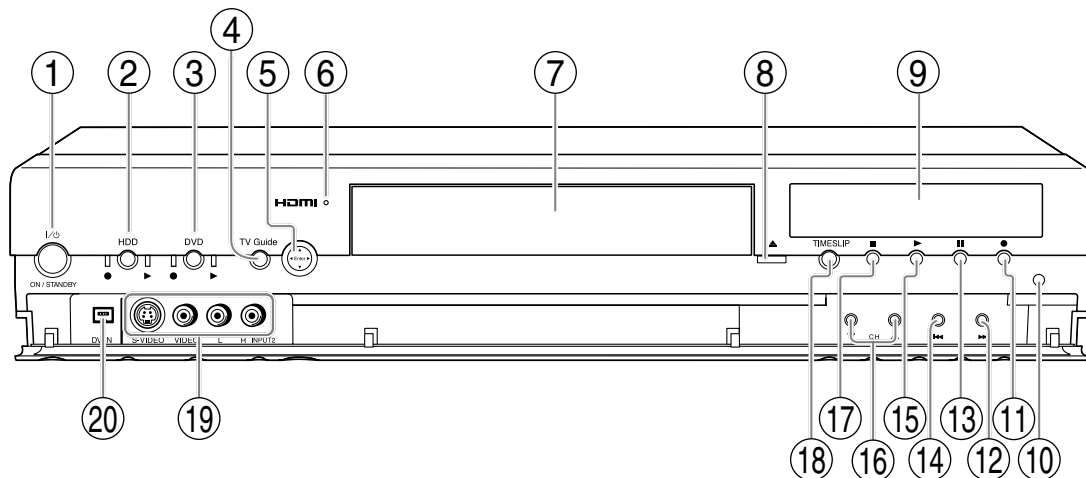
	DVD-RAM disc	DVD-RW disc	DVD-R disc
Characteristics on this recorder	Suitable for repeat use of the disc, and data storage for video library. Copy once contents can be recorded using a compatible disc.	Suitable for saving data in DVD-Video format to play on compatible devices.  You can erase recorded contents to use the disc repeatedly.	Suitable for saving data in DVD-Video format to play on compatible devices.  Once you execute DVD-Video finalizing process on a recorded disc so that it can be played on other players, you cannot make additions, corrections and deletions of contents on the disc.
For the first use	No preparatory steps required, however initializing is recommended.	Initialize the disc.	No preparatory steps required.
Recording a TV program	Yes	Yes	Yes
Erasing recorded contents	Yes	Yes If the disc has been executed DVD-Video finalizing process, first cancel the process then delete contents.	Yes Deleting contents cannot restore the disc space. <u>After you execute DVD-Video finalizing process on a recorded disc, you cannot delete contents of the disc.</u>
Recording additional content on a recorded disc	Yes	Yes If the disc has been executed DVD-Video finalizing process, first cancel the process then delete contents.	Yes <u>After you execute DVD-Video finalizing process on a recorded disc, you cannot add contents to the disc.</u>
Indexing recorded contents Naming a title Creating a thumbnail	Yes Yes	Yes Yes <u>After you execute DVD-Video finalizing process on a recorded disc, you cannot name a title or create a thumbnail.</u>	Yes Yes <u>After you execute DVD-Video finalizing process on a recorded disc, you cannot name a title or create a thumbnail.</u>
Collecting favorite scenes (Playlist Editing) Making a new title from a Playlist containing favorite scenes (Copy within the same disc)	Yes  Yes	No  No	No  No
Playing contents recorded on this recorder, on other devices	Contents can be played on any devices compatible with DVD-RAM discs. Follow the instruction of the device to play.	Execute DVD-Video finalizing process on this recorder. This process makes the disc playable on other compatible devices. (Some models excepted.)	Execute DVD-Video finalizing process on this recorder. This process makes the disc playable on other compatible devices. (Some models excepted.)
When a message appears and the loaded disc cannot be used:	Initialize the disc. If it is still unusable, try to execute DVD-RAM physical Format.	Initialize the disc.	—

# Index to parts and controls

See pages with arrows for details.

## Front panel

All operations can be possible from the supplied remote control.



\* The above illustration displays the front panel with the cover open. See the following page on how to open or close the cover.

- ① **ON/STANDBY button / ON/STANDBY indicator** ➡ **page 20**  
Turns the power on/restores the unit in the standby mode.
- ② **HDD button/HDD indicator** ➡ **page 45, 50**  
Press this to operate the HDD.
- ③ **DVD button/DVD indicator** ➡ **page 45, 66**  
Press this to operate a disc inside the disc tray.
- ④ **TV Guide button** ➡ **page 23, 40**  
Starts/exits TV Guide On Screen®.
- ⑤ **▲/▼/◀/▶/Enter button**
  - ▲/▼/◀/▶ :  
Moves highlight or changes value.
  - Enter:  
Makes a selection or executes an action.
- ⑥ **HDMI indicator**  
Illuminates while the HDMI connection is verified.
- ⑦ **Disc tray** ➡ **page 20**  
Loads a disc into the disc drive.
- ⑧ **▲ (OPEN/CLOSE) button** ➡ **page 20**  
Opens and closes the disc tray.
- ⑨ **Front panel display** ➡ **page 18**
- ⑩ **Remote sensor** ➡ **page 18** in “INSTALLATION GUIDE”
- ⑪ **● (REC) button** ➡ **page 46**  
Starts recording.
- ⑫ **▶▶ (SKIP) button**  
Skips to the next chapter or track. ➡ **page 62**
- ⑬ **⏸ (PAUSE) button**  
Stops playback or recording momentarily. ➡ **page 47, 61**
- ⑭ **◀◀ (SKIP) button**  
Skips to the previous chapter or track. ➡ **page 62**
- ⑮ **▶ (PLAY) button** ➡ **page 66**  
Starts playback.
- ⑯ **CH buttons** ➡ **page 20, 45**  
Selects the channel.

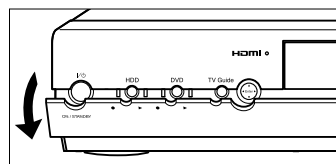
HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.



- ⑰ **■ (STOP) button** ➡ **page 50, 61**  
Stops playback or recording.
- ⑱ **TIME SLIP button/TIMESLIP indicator**  
➡ **page 68, 69**  
Selects the time slip mode.  
Illuminates in the time slip mode.
- ⑲ **INPUT2 jacks** ➡ **page 49**  
Use this when recording from other input source  
such as a VCR or a camcorder.
- ⑳ **DV IN terminal** ➡ **page 52**  
Use this when recording from a digital video  
device such as a digital video camera.

■ **To open or close the cover on the front panel**

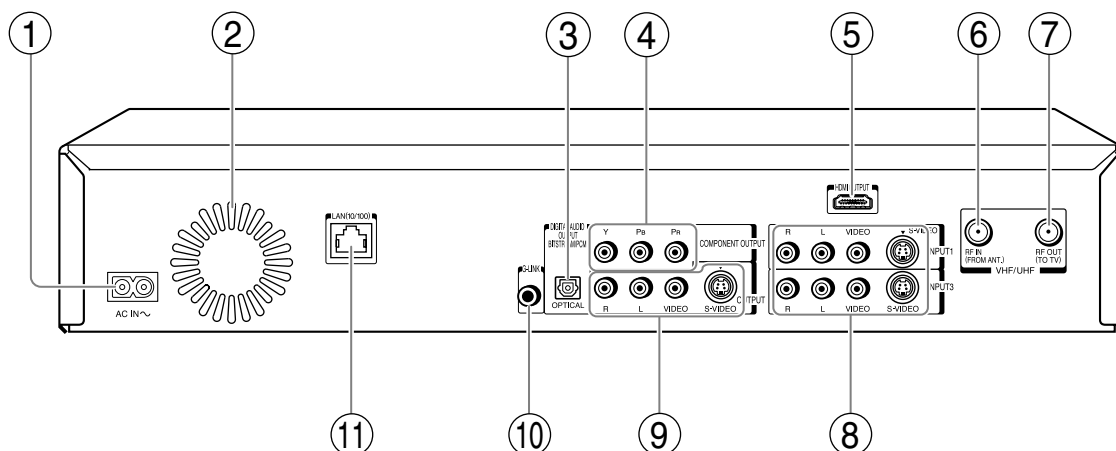
Put your finger on the left edge of the cover and pull it down to open.



**Note**

- Do not place a heavy object on the cover while it is open. Doing so may damage the recorder.

## Rear panel



① **AC IN socket** ➞ page 21 in “INSTALLATION GUIDE”

② **Ventilation fan**  
Do not block the ventilating holes.

③ **DIGITAL AUDIO OUT BITSTREAM/PCM OPTICAL jack** ➞ page 29 in “INSTALLATION GUIDE”

Use this to connect the recorder to an audio receiver equipped with an optical digital audio input jack.

④ **COMPONENT OUTPUT jacks** ➞ page 28 in “INSTALLATION GUIDE”

Outputs video signals to a connected TV or monitor.

Connects to a TV or monitor equipped with component video jacks.

⑤ **HDMI OUTPUT jack** ➞ page 26 in “INSTALLATION GUIDE”

Use this to connect the recorder to a HDMI compatible TV or monitor.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

⑥ **VHF/UHF RF IN (FROM ANT.) input socket** ➞ page 20 in “INSTALLATION GUIDE”

Connects to an antenna or cable signal.

⑦ **VHF/UHF RF OUT (TO TV) output socket** ➞ page 20 in “INSTALLATION GUIDE”

Connects the supplied coaxial cable to a TV.

⑧ **INPUT1/INPUT3 jacks** ➞ page 49

Use this to connect the recorder to output jacks of external devices such as another player or camcorder.

⑨ **OUTPUT jacks** ➡ page 21, 23, 24, 28 in “INSTALLATION GUIDE”

Outputs video and audio signals to a connected TV or amplifier.

⑩ **G-LINK jack** ➡ page 25 in “INSTALLATION GUIDE”

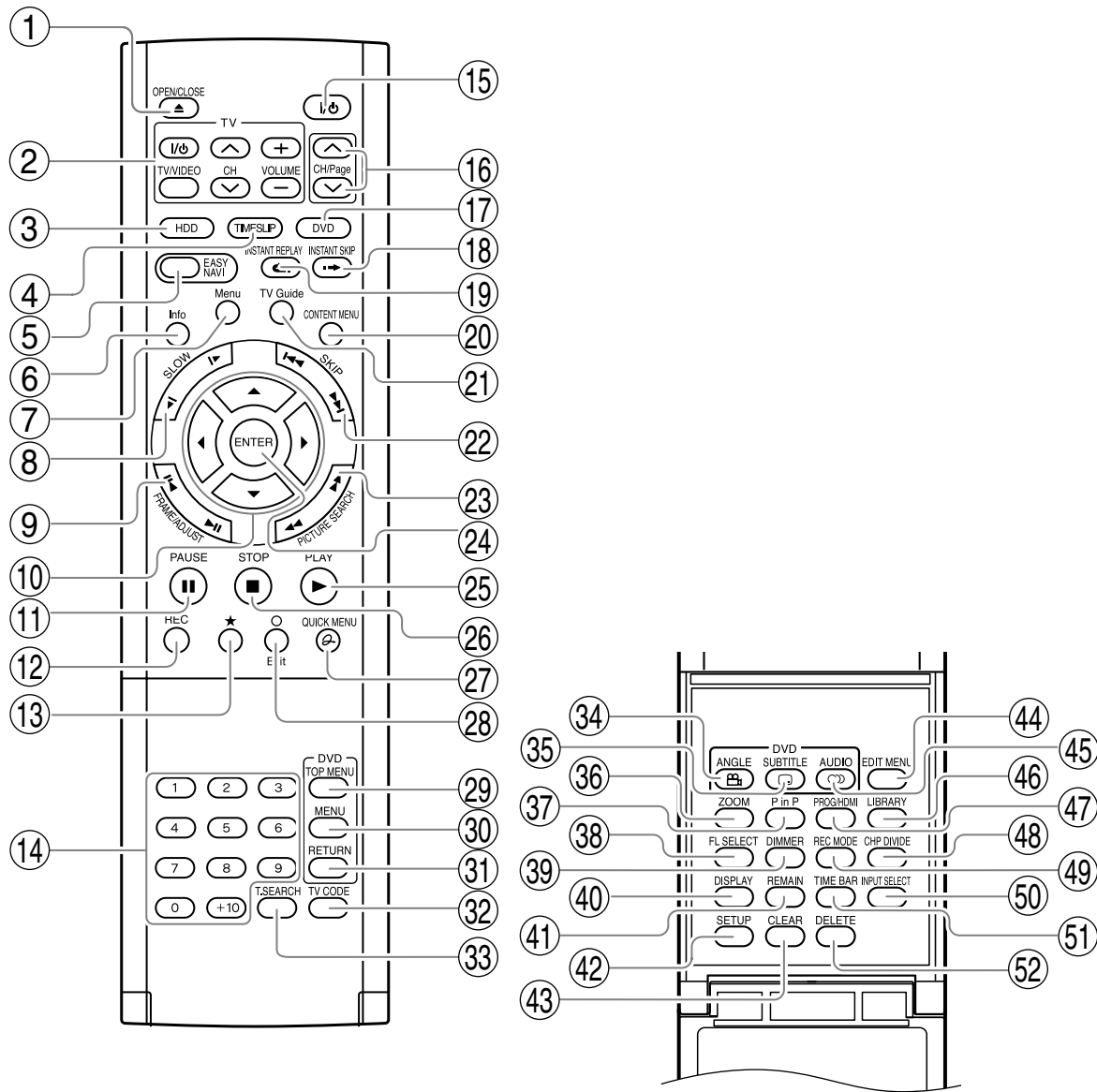
Connect the supplied G-LINK® cable to this jack if you are connecting this recorder to a cable/satellite box. If you use a cable box connected to this recorder, the TV Guide On Screen® system changes channels on your cable box via the G-LINK® cable to download free program listings for your area while the recorder is turned off. You are also able to control your cable box using the recorder's remote control after you connect the G-LINK® cable and go through the TV Guide On Screen® setup. (TV Guide On Screen® system is for cable box users only. Not available for satellite box users.)

⑪ **LAN(10/100) port**

For an optional connection to operate the recorder via a PC.

See “Network Navi” (➡ page 142, 145, 146) for details.

Remote control



- ① OPEN/CLOSE button ➡ page 20
- ② Buttons for TV operation ➡ page 50 in "INSTALLATION GUIDE"
- ③ HDD button ➡ page 45, 50
- ④ TIMESLIP button ➡ page 68, 69
- ⑤ EASY NAVI button ➡ page 29
- ⑥ Info button ➡ page 23
- ⑦ Menu button ➡ page 23
- ⑧ SLOW button ➡ page 62
- ⑨ FRAME/ADJUST button ➡ page 62, 72
- ⑩ Direction buttons (▲/▼/◀/▶) ➡ page 60, 172
- ⑪ PAUSE button ➡ page 61, 62
- ⑫ REC button ➡ page 40, 46
- ⑬ ★ button ➡ page 70
- ⑭ Number buttons ➡ page 45, 71
- ⑮ ON/STANDBY button ➡ page 20, 21
- ⑯ CH/Page buttons ➡ page 20, 23, 45
- ⑰ DVD button ➡ page 45, 66
- ⑱ INSTANT SKIP button ➡ page 61
- ⑲ INSTANT REPLAY button ➡ page 61
- ⑳ CONTENT MENU button ➡ page 60
- ㉑ TV Guide button ➡ page 23, 40
- ㉒ SKIP button ➡ page 62
- ㉓ PICTURE SEARCH button ➡ page 62
- ㉔ ENTER button ➡ page 23, 24, 60, 172
- ㉕ PLAY button ➡ page 66, 127
- ㉖ STOP button ➡ page 50, 61, 111
- ㉗ QUICK MENU button ➡ page 46, 92
- ㉘ ○ button ➡ page 123
- ㉙ TOP MENU button ➡ page 66
- ㉚ MENU button\*<sup>1</sup>
- ㉛ RETURN button\*<sup>2</sup>
- ㉜ TV CODE button ➡ page 50 in "INSTALLATION GUIDE"
- ㉝ T.SEARCH button ➡ page 71
- ㉞ ANGLE button ➡ page 67
- ㉟ SUBTITLE button ➡ page 67
- ㊱ ZOOM button ➡ page 70
- ㊲ P in P button ➡ page 70
- ㊳ FL SELECT button ➡ page 19
- ㊴ DIMMER button ➡ page 19
- ㊵ DISPLAY button ➡ page 78
- ㊶ REMAIN button ➡ page 33
- ㊷ SETUP button ➡ page 172
- ㊸ CLEAR button ➡ page 36
- ㊹ EDIT MENU button ➡ page 102, 113
- ㊺ AUDIO button ➡ page 72
- ㊻ LIBRARY button ➡ page 132
- ㊼ PROG/HDMI button ➡ page 26 in "INSTALLATION GUIDE"
- ㊽ CHP DIVIDE button ➡ page 87
- ㊾ REC MODE button ➡ page 45
- ㊿ INPUT SELECT button ➡ page 50
- 1 TIME BAR button ➡ page 79
- 2 DELETE button ➡ page 55

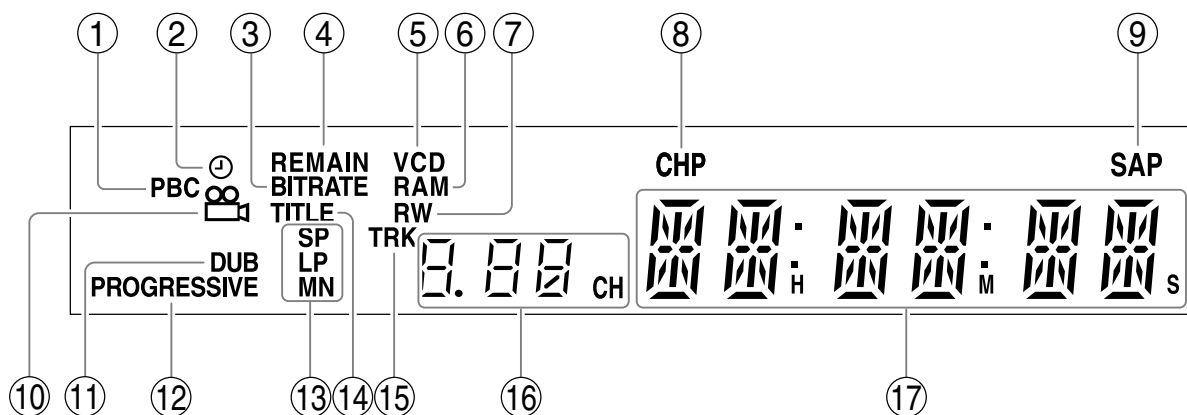
\*<sup>1</sup> MENU

Use this to display a menu screen that is recorded on a DVD video disc.  
Operate the menu screen as the same manner as "Locating a title using the top menu (➡ page 66)".  
A menu screen is not recorded on some discs.

\*<sup>2</sup> RETURN

Returns to the previous screen (the screen may be specified depending on the disc).  
Refer to the instructions of the disc.

## Display



① **PBC indicator**

Illuminates when a PBC-controllable VIDEO CD is loaded.

② **Program recording indicator**

Illuminates when the recorder holds a timer program.

③ **Bit rate indicator**

Illuminates when displaying the bit rate selected for recording, or when displaying the actual bit rate.

④ **REMAIN (Remaining space) indicator**

Illuminates when an available recording time is displayed.

⑤ **VCD/CD indicator**

VCD : Illuminates when a VIDEO CD is loaded.  
CD : Illuminates when an audio CD is loaded.

⑥ **DVD-RAM indicator**

Illuminates when a DVD-RAM disc is loaded.

⑦ **DVD-RW/R indicator**

Illuminates when a DVD-RW/R disc is loaded.

⑧ **CHP (Chapter) indicator**

Illuminates when a chapter number is displayed.

⑨ **SAP indicator**

Illuminates when receiving a SAP broadcast.

⑩ **Angle icon** ➡ **page 67**

Illuminates when playing a scene recorded with multi angles.

⑪ **DUB (Dubbing) indicator**

Illuminates when copying.

⑫ **PROGRESSIVE indicator**

Illuminates when video signals are output in the progressive format.

⑬ **Picture quality mode indicator** ➡ **page 183**

The current picture quality mode lights up.  
The modes are: MN (Manual)/SP (Standard Play)/LP (Long Play)

## ■ Dimming the display

Pressing DIMMER button on the remote control changes the brightness of the display (normal/dimmed/off).

## ■ Switching the display

Every time you press FL SELECT button, the display changes between the channel, title number, and time. The display may not change, depending on the disc or recording conditions.

### ⑭ **TITLE indicator**

Illuminates when a title number is displayed.

### ⑮ **TRK (Track) indicator**

Illuminates when a track number is displayed.

### ⑯ **Channel indicator**

Displays the current channel or other numbers such as a title number, track number, bit rate or input selection.

### ⑰ **Multi display**

Displays the current time, elapsed time, remaining time, starting time of programmed recording, chapter number or message, etc.

# Before operating this recorder

## ■ Is your recorder ready?

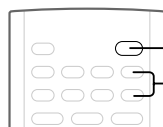
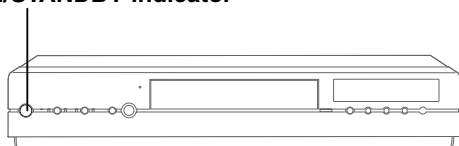
- Refer to "INSTALLATION GUIDE" manual and finish the necessary preparations.
- Turn on the connected equipment such as a TV or audio system and select the input from the recorder.

## ■ Turning the power on

(This owner's manual instructions are based on the premise that all proper connections have been completed and the TV is turned on.)

Press ON/STANDBY on the front panel of the recorder or on the remote control.

ON/STANDBY button/  
ON/STANDBY indicator



ON/STANDBY button

CH/Page buttons

When the power turns on, the ON/STANDBY indicator changes from red (standby mode) to green (operation). After a few seconds, a start-up screen appears. The following icon appears at the top right corner of the screen.



When this icon disappears, the recorder is ready to operate. If the disc drive contains a disc, it takes a little longer to start up.

## ■ Viewing TV channels through this recorder

After turning the power on, the recorder will output TV channel signals to the connected TV (also in the stop mode).

You can select a desired channel by pressing the CH/ Page or the number buttons.

## ■ Loading a disc

Check disc compatibility beforehand (➡ page 6, 7) and use a proper playable disc.

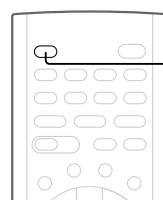
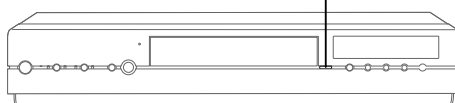
### Caution

- Keep your fingers well clear of the disc tray. Neglecting this may cause serious personal injury. Keep a close watch on children.
- Do not use a cracked, deformed, or repaired disc.

### 1 Open the disc tray.

Press on the front panel or the OPEN/CLOSE button on the remote control.

button



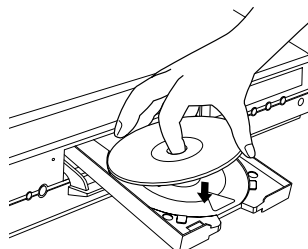
OPEN/CLOSE button

### 2 Insert a disc.

#### Disc without a cartridge

Insert with the playback side down.

There are two kinds of disc size. Place a disc to fit the dish. If a disc is out of the dish, it may result in damage to the disc or malfunction.



Place a disc in the inside hollow.



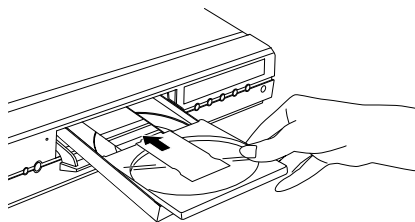
#### DVD-RAM disc with cartridge (TYPE1/TYPE2/TYPE4)

##### Single sided

Turn the printed side up, and insert the cartridge into the tray frame following the direction of the arrow on the cartridge.

##### Double sided

Turn the desired recording/playback side up, and insert the cartridge into the tray frame following the direction of the arrow on the cartridge.



### 3 Close the disc tray.

Press **▲** on the front panel or OPEN/CLOSE button on the remote control.

#### Notes

- Use the button on the front panel or the remote control to open and close the disc tray. Do not push or hold the disc tray while it is moving. Doing so may cause the recorder to malfunction.
- Do not insert a disc which is unplayable, or any object other than a playable disc.
- Do not apply downforce to the disc tray. Doing so may cause the recorder to malfunction.
- If the disc tray stops while closing, the mechanical protection system of this recorder will open it. Do not force it to close. Doing so may cause malfunction.
- If the disc tray would not open, turn the recorder off, and press **▲** button on the front panel or OPEN/CLOSE button on the remote control. This may turn the recorder on and open the disc tray. If it still wouldn't open, contact your nearest TOSHIBA dealer.

### ■ Turning the power off

Press **ON/STANDBY** on the front panel of the recorder or on the remote control.

The "Unloading" icon appears at the top right corner of the screen, and ON/STANDBY indicator turns red, then the power turns off (Standby mode.)

#### Caution

- If the power fails or the power cord is disconnected from a wall outlet while the recorder is in operation (ON/STANDBY indicator lit in green), the HDD or a loaded disc may become recording disabled. In such a case, executing an initialization of the disc using the formatting function of the recorder may refresh it. However, all contents stored on the disc will be completely erased by this initialization process.
- This recorder may indicate alert messages with some DVD-RAM discs right after insertion. If such a disc is used for playback or recording on other equipment, all data in the disc may be damaged and the disc will not be played. By executing an initialization of the disc using the formatting function of the recorder, the disc will become operational.
- If the recorder freezes and does not respond at all, leave it alone for about 15 minutes or longer. This may restore the recorder. After the recorder has recovered, turn it off once and turn it on again to use as usual. If the recorder is still inoperable after more than 15 minutes have passed, press and hold the ON/STANDBY button on the front panel for about 10 seconds or longer. The recorder is forced to quit and the power turns off. Turn the recorder on again and use it as usual. (This is an emergency measure, which may cause losses and/or damages of data. Avoid casual use of this measure. If you try this while the recorder is working properly, especially while the "Loading" or "Unloading" icon is flashing, it may result in initializing of the HDD.) (This 15-minute measure is available only when "Screen protector" is set to "On." (▶ page 181))

#### Note

- If there are any performance malfunctions of the HDD or the DVD-RAM drive, immediately discontinue use of this recorder, and disconnect the power cord from a wall outlet, then contact your dealer. Continuous use of the recorder in such a condition will aggravate the condition and result in increased cost and repair time.

### ■ Disc tray lock (Child lock)

You can lock the disc tray.

**Press and hold PAUSE on the remote control for longer than about 3 seconds.**

To unlock, press the button for longer than about 3 seconds.

#### Note

- Turning the power off also unlocks the disc tray.

## Before operating this recorder (Continued)

## ■ Start-up/Shutdown (closing) icons

These icons are displayed at the top right corner of the screen when startup or finishing. While they are flashing, the recorder is operating as follows:



Start-up, reading a disc, finishing the recording



Unloading a disc, finishing the operation



Opening a disc tray



Closing a disc tray

## ■ Status display

Each time you operate the recorder, the following displays appear on the TV screen to indicate the status of the recorder.



Main on-screen displays  
(Depending on the disc, some of these may not appear.)

- ▶ : Playback
- || : Pause
- : Stop
- ▶ : Fast-forward\*
- ◀ : Fast-reverse\*
- ▶▶ : Forward skip\*\*
- ◀◀ : Reverse skip\*\*
- ▶x1/2 : Forward slow-motion
- ◀x1/2 : Reverse slow-motion
- ||▶ : Forward frame by frame playback
- ◀|| : Reverse frame by frame playback
- : Recording
- || : Recording pause
- Title End : When title playback is completed
- : Instant skip
- ↶ : Instant replay
- Chapter Divide : Chapter division
- 1/20 : Forward skip by 1/20
- 1/20 : Reverse skip by 1/20

\* The number of the mark varies according to the playback speed you select.

\*\* Accompanied with the followings:

- HDD DVD-RAM DVD-RW DVD-R :  
Title number/title name and chapter number/  
chapter name
- DVD-VIDEO :  
Title number and chapter number
- VCD CD :  
Track number

## Notes

- To disable the status display, set "On screen display" (➡ page 181) to "Off."
- You can add the current status of the settings to this display. See ➡ page 78.

# Using TV Guide On Screen®

The TV Guide On Screen system in your recorder is a free interactive program guide that provides up to 8 days of program listings for over-the-air, cable-ready and analog cable in your area. The system allows you to easily find, set up reminders and schedule recordings of your favorite TV programs.

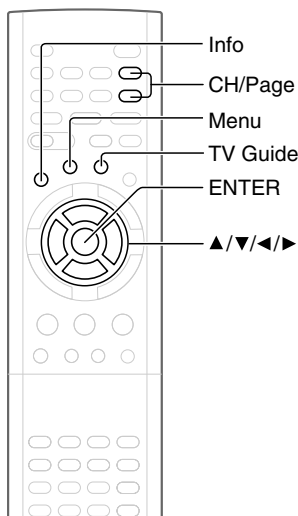
When using a satellite box, TV Guide On Screen LISTINGS service is not available for changing channels for TV viewing or setting recordings.

Only manual timer recordings are available. Please see ➡ page 43 for instructions.

## ■ Entering TV Guide On Screen mode

**Press TV Guide.**

TV Guide On Screen LISTINGS service is displayed.



## ■ Buttons in TV Guide On Screen mode

▲ / ▼ / ◀ / ▶:

Moves the highlight.

ENTER:

Makes a selection or executes an action.

Menu:

Displays a Panel Menu with options.

Info: (while **i** INFO is displayed)

Changes the Info Box size.

Opens a Help screen when you move the highlight on the service bar.

CH/Page:

Scrolls one page up or down in the LISTINGS service.



**The LISTINGS service contains a list of up to 8 days of TV programs including today.**

### To view a TV program

Press ▲ / ▼ to select a TV program and press ENTER.

### To view information of a TV program

Press ▲ / ▼ to select a TV program and press Info.

To close the Info Box, press Info twice.

### To access options (e.g., recording, reminder, etc.)

See the next page.

You also have access to the following services besides the LISTINGS service. While on the Main service bar select a service by pressing ◀ / ▶, then press ENTER. If you press Info while a service is highlighted, an Info box opens to show you more information about the service. Follow any instructions provided. For details, see the next page.

### RECORDINGS

List all shows recorded through the TV Guide On Screen system.

### SEARCH

Sort by keyword, movies, sports, HDTV, and more.

### SCHEDULE

Review, add or modify scheduled recordings and reminders.

### SETUP

Change the TV Guide On Screen defaults to your preference or redo the setup

### Notes

- To exiting TV Guide On Screen mode, press TV Guide.
- While the TV Guide On Screen system is displayed other menus (e.g. EASY NAVI, CONTENT MENU, EDIT MENU, LIBRARY MENU) are not available. To use these menus, exit the TV Guide On Screen system.

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The TV Guide On Screen system is manufactured under license from Gemstar-TV Guide International, Inc. and/or one of its affiliates.

The TV Guide On Screen system is protected by one or more of the following issued United States patents 6,498,895, 6,418,556, 6,331,877, 6,239,794; 6,154,203; 5,940,073; 4,908,713; 4,751,578; 4,706,121.

## Using TV Guide On Screen® (Continued)

**Note**

Please note that over-the-air or cable access to stations carrying TV Guide On Screen® data is required for the TV Guide On Screen® system to operate. TV Guide On Screen® does not work with satellite programming. Toshiba does not provide the TV Guide On Screen® data. Instead, the data is provided by a third party, which is responsible for the accuracy and availability of the data. Additionally, occasional compatibility issues may exist between the TV Guide On Screen® system contained in your HDD/DVD Video Recorder and the data provided by the third party. In the event that you experience any performance issues with your TV Guide On Screen® system, please do not hesitate to contact the Toshiba America Consumer Products, L.L.C. Consumer Solutions Department by calling (800) 631-3811 or by visiting <http://www.tacp.com/customersupport/contact.asp>

## Services and options

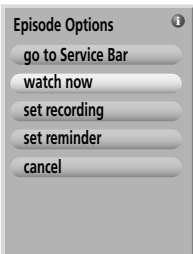
For more details press Info while navigating through the various options and services.

### LISTINGS


If you select a TV program and press Menu, a panel menu appears under the video window.

Press ▲ / ▼ to select an option then press ENTER.

e.g.

	go to Service Bar	Closes the menu, changes no information, and returns a Highlight to the Service Bar.
	watch now	The selected TV program appears in a full screen.
	set recording	You can set the TV program to record. See ➡ page 40.
	set reminder	You can set a reminder to the TV program. See ➡ page 26.
	cancel	Changes are canceled and this menu is closed.

e.g.

	schedule reminder	Your selections below are entered and this menu is closed.
	frequency	Press ◀ / ▶ to select the frequency.
	auto tune TV	Press ◀ / ▶ to select whether to tune to the channel.
	when	Press ◀ / ▶ to select the time you want the reminder to appear.

#### Tips on panel menu operation

- ▲ / ▼ buttons move a highlight. If you see “▲” or “▼” on the top or bottom of a panel menu, CH/Page buttons can be used to turn the page.
- To enter a digit, use the number buttons.
- When a box has “◀” and “▶” on both sides, use ◀ / ▶ buttons to cycles between the options.
- Press ENTER from an option to highlight the default command button (e.g., “done”). Press ENTER again to execute the action and close the panel menu.
- To cancel any changes and close the menu, press Menu, or select “Cancel” then press ENTER.

**Notes**

- You can set the video window to remain on a single channel (“lock”) or change channels (“unlock”) as you navigate through LISTINGS. With a channel logo or “LISTINGS” is highlighted, press Menu button to display the option to select “lock” or “unlock”.
- You can access a TV program advertised in a panel ad. While the panel ad is highlighted press ENTER. If the TV program is airing now, you would tune to it. A panel menu appears, if the program is in the future.

### SEARCH

If you select this service and press ENTER, categories appear on a bar under the Service Bar.

By selecting one of the categories, you can search TV programs.

After searching, you can open “Episode Options” by pressing Menu to access the options (above).

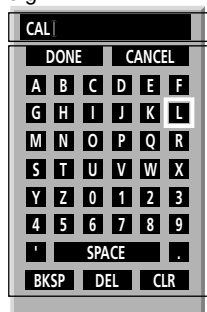
**To search by Search type (Alphabetical, HDTV, Movies, Sports, Children, Educational, News, Variety, Series)**

- 1) Press ◀ / ▶ to select a Search type.
- 2) Press ▲ / ▼ to select a category, then press ENTER.

## To search by entering a keyword

- 1) Press ◀/▶ to select "KEYWORD" then press ENTER.  
"Keyword Search" appears.
- 2) Press ▲/▼ to select "new search" then press ENTER.  
"Search Options" appears.
- 3) Press ▲/▼ to select "category" then press ◀/▶ to select a category.
- 4) Press ▲/▼ to select "enter keyword" then press ENTER.  
The keyboard appears.
- 5) Press ▲/▼/◀/▶ to enter a keyword.

e.g.



Press ◀/▶ to select a entry point then press ENTER.

The selected letter is entered.

Press ▲/▼/◀/▶ to select then press ENTER.

The text entry box is highlighted.

BKSP erases a letter on the left of the cursor.

DEL erases a letter on the right of the cursor.

SPACE inserts a space on the left of the cursor.

CLR erases all letters.

- 6) When complete, press ▲/▼/◀/▶ to select "DONE" then press ENTER.  
A list of all matching TV programs for that keyword is displayed.

## RECORDINGS

If you select this service and press ENTER, TV programs previously recorded or currently recording are listed. You can select one from the list to view or delete.

## To list programs in alphabetical order or by date and time

- 1) While "RECORDINGS" is highlighted, press Menu.  
"Recordings Options" appears.

- 2) Press ▲/▼ to select an option.

e.g.



view as

Press ◀/▶ to select.

group: Titles of recorded TV programs are listed.

list: Displays a detailed list of every recorded program.

sort by

Press ◀/▶ to select.

title: Listed in alphabetical order

date: Listed by date and time, with most recent date and time first.

- 3) When complete, press ▲/▼ to select "done" then press ENTER.  
A list of all matching TV programs for that keyword is displayed.

## To play recorded program ("view as" is set to "group")

- 1) Press ▲/▼ to select a TV program then press ENTER.
- 2) Press ▼ to select an episode and press ENTER.

### Notes

- If you play a TV program which you played before, playback starts from where you last stopped. To view it from the beginning, select the TV program on RECORDINGS, then press ENTER and ▼ to select an episode then Menu. On "Episode Options" select "play from beginning" then press ENTER.
- When "view as" is set to "list", press ▲/▼ to select a TV program, then press ENTER.

## Using TV Guide On Screen® (Continued)

## To delete recorded programs ("view as" is set to "group")

- 1) Press ▲ / ▼ to select a TV program and press ENTER.
- 2) Press ▼ to select an episode and press Menu.  
"Episode Options" appears.
- 3) Press ▲ / ▼ to select "delete episode" then press ENTER.  
A confirming menu appears.
- 4) Press ▲ / ▼ to select "yes" or "no" then press ENTER.

## Note

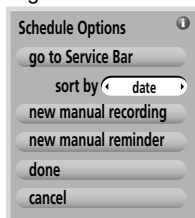
- When "view as" is set to "list", press ▲ / ▼ to select a TV program and Menu. On "Episode Options", press ▲ / ▼ to select "delete episode" then ENTER. Press ▲ / ▼ to select "yes" or "no" then ENTER.

## SCHEDULE

If you select this service and press ENTER, reminder and recordings you set previously are listed.  
You can edit or delete them.

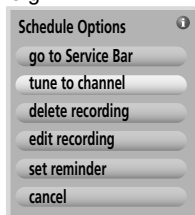
- 1) Press ▲ / ▼ to select a TV program.
- 2) Press Menu.  
"Schedule Options" appears.
- 3) Press ▲ / ▼ to select then press ENTER.

e.g.



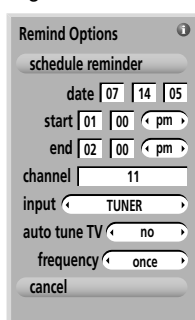
- sort by Press ◀ / ▶ to select how you display the list. (date, title, event)
- new manual recording You can set recording manually. See ➡ page 43.
- new manual reminder You can set a reminder manually. See below.

e.g.



- delete recording (delete reminder) A confirming menu appears.  
Press ▲ / ▼ to select "yes" or "no" then press ENTER.
- edit recording (set recording) Opens a menu.  
For a recording, see ➡ page 43.
- set reminder (edit reminder) You can set a reminder manually. See below.

e.g.



- schedule reminder Your selections below are entered and this menu is closed.
- date Press the number buttons to input the date (month, day, year).  
To shift the highlight, press ▲ / ▼.
- start Press the number buttons or ◀ / ▶ to input the time (hour, minute, am/pm).  
end To shift the highlight, press ▲ / ▼.
- channel Press the number buttons to input a channel number.
- input Press ◀ / ▶ to select the input.
- auto tune TV Press ◀ / ▶ to select whether the TV is automatically tuned to the  
channel you have selected.
- frequency Press ◀ / ▶ to select the frequency.

## Notes

- When a reminder message appears, select an option by pressing ◀ / ▶ and then press ENTER. If you don't make a selection within 30 seconds, the recorder proceeds with the scheduled recording or reminder.
- If reminders conflict, "REMINDER CONFLICT!" appears. Press ▲ / ▼ to select an option, then press ENTER.

## SETUP

If you select this service and press ENTER, options to change settings are listed.

### To execute the setup again

- 1) Press ▲ / ▼ to select “Change system settings” then press ENTER.  
Your current settings are displayed.
- 2) Press ▲ / ▼ to select your answer then press ENTER.
- 3) Follow the on-screen guidance.

### To arrange the position the channel appears in LISTINGS

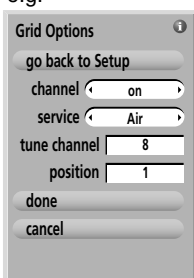
#### To change the tuning channel number

#### To switch channels on/off in LISTINGS

- 1) Press ▲ / ▼ to select “Change channel display” then press ENTER.  
“Grid Options” appears.

- 2) Press ▲ / ▼ to select a channel then press Menu.
- 3) Press ▲ / ▼ to select then press ENTER.

e.g.



channel

Press ◀ / ▶ to select “on” or “off”.  
on: the channel is always displayed.  
off: the channel is never displayed.  
auto-hide: the channel hides automatically.

service

Press ◀ / ▶ to select the signal type of the channel.

tune channel

Press the number button to enter a channel.

position

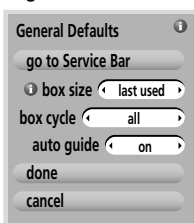
Press the number button to enter a desired position for the channel in LISTINGS.

- 4) When complete, press ▲ / ▼ to select “done” then press ENTER.

### To change Info Box size

- 1) Press ▲ / ▼ to select “Change default options” then press ENTER.
- 2) Press ▲ / ▼ to select “General defaults” then press Menu.  
“General Defaults” appears.
- 3) Press ▲ / ▼ to select then press ENTER.

e.g.



i box size

Press ◀ / ▶ to select the initial size of the Info Box.

box cycle

Press ◀ / ▶ to select the size rotation when Info is pressed.

auto guide

Press ◀ / ▶ to select whether the recorder enters TV Guide On Screen system when powered on.

- 4) When complete, press ▲ / ▼ to select “done” then press ENTER.

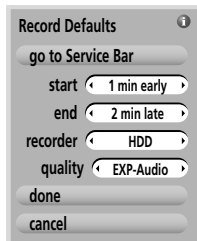
## Using TV Guide On Screen® (Continued)

## To change recording defaults

- 1) Press ▲ / ▼ to select “Change default options” then press ENTER.
- 2) Press ▲ / ▼ to select “Record defaults” then press Menu.

“Record Defaults” appears.

e.g.



start

Press ◀ / ▶ to select the time to start recording.

end

Press ◀ / ▶ to select the time to end recording.

recorder

Press ◀ / ▶ to select the drive.

quality

Press ◀ / ▶ to select the recording mode.  
(For details, see ➡ page 42.)

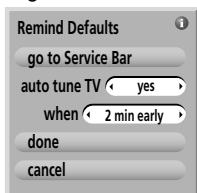
- 3) When complete, press ▲ / ▼ to select “done” then press ENTER.

## To change reminder defaults

- 1) Press ▲ / ▼ to select “Change default options” then press ENTER.
- 2) Press ▲ / ▼ to select “Remind defaults” then press Menu.

“Remind Defaults” appears.

e.g.



auto tune TV

Press ◀ / ▶ to select whether the channel is automatically tuned to the channel you have selected.

when

Press ◀ / ▶ to select the time you want the reminder to appear.

- 3) When complete, press ▲ / ▼ to select “done” then press ENTER.

## ■ Note on watching TV with TV Guide On Screen

If you leave the recorder turned on without executing any action for about 3 hours, a message will appear on the TV asking you want to continue watching TV.

If you want to continue watching TV, press ENTER.

If you do not press ENTER, the recorder will automatically turn off within about 10 minutes.

## Notes

- As the number of recorded TV programs increases, it may take several minutes for the TV Guide On Screen LISTINGS service to be displayed. In addition, conditions of the recorder can also vary the loading time.
- The TV Guide On Screen menus shown in this manual are for illustration purposes only. The channels, programs, and TV Guide On Screen information as illustrated may not be available in your area, may be subject to change.

Gemstar-TV Guide International Inc. and/or its related affiliates are not in any way liable for the accuracy or availability of the program schedule information or other data in the TV Guide On Screen system and cannot guarantee service availability in your area. In no event shall Gemstar-TV Guide International, Inc. and/or its related affiliates be liable for any damages in connection with the accuracy or availability of the program schedule information or other data in the TV Guide On Screen system.



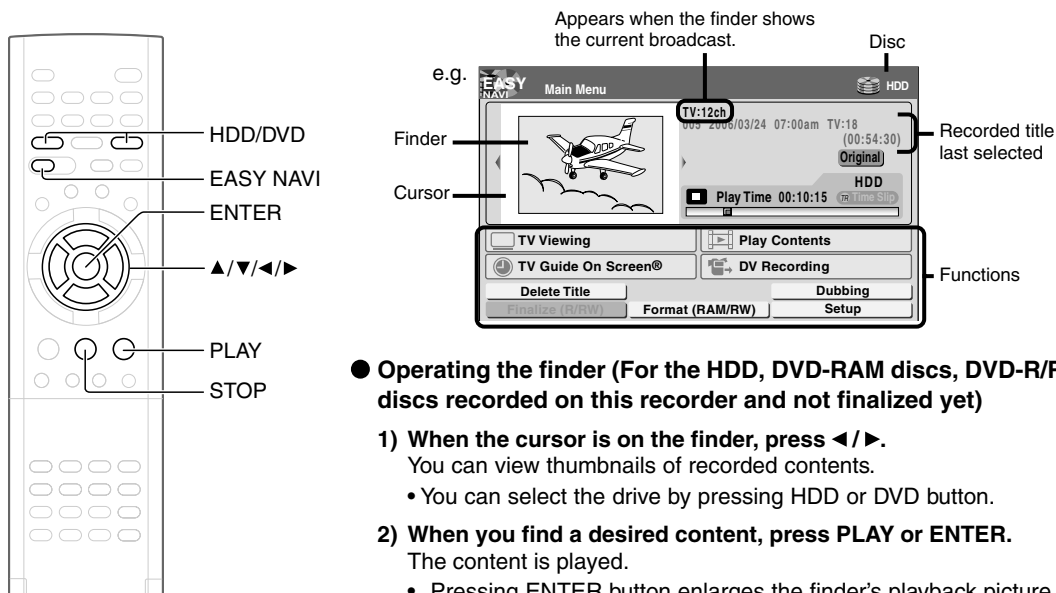
# Key operation - EASY NAVI & QUICK MENU

The **EASY NAVI** button opens “**EASY NAVI Main Menu**”, a main gate to the functions of this recorder. From this menu, you can access the desired functions while viewing a current picture. Additionally, **QUICK MENU** button provides you a sub menu of the current function.

## ■ EASY NAVI

Press **EASY NAVI**.

Sound is muted and the following GUI appears. (Actual displays vary depending on operational status.)



### ● Operating the finder (For the HDD, DVD-RAM discs, DVD-R/RW discs recorded on this recorder and not finalized yet)

#### 1) When the cursor is on the finder, press ◀/▶.

You can view thumbnails of recorded contents.

- You can select the drive by pressing HDD or DVD button.

#### 2) When you find a desired content, press **PLAY** or **ENTER**.

The content is played.

- Pressing **ENTER** button enlarges the finder's playback picture to the full of the screen.
- You can change playback speed. See ➡ page 62.

#### 3) To stop, press **STOP**.

A current channel broadcast appears. (“TV:xxxch” accompanies.)

- Pressing **REC** button starts recording. On recording, see ➡ page 32.

### ● Item selection

Press **▲/▼/◀/▶** to select an item, then press **ENTER**.

(Unavailable features are grayed out.)

Item	Function	➡ page
<b>TV Viewing</b>	Return to current broadcast channel.	—
<b>Play Contents</b>	Recorded contents are listed in a thumbnail view.	60
<b>TV Guide On Screen®</b>	TV Guide On Screen SCHEDULE appears.	26
<b>DV Recording</b>	The setting menu for recording contents from equipment connected to the DV IN terminal.	52
<b>Delete Title</b>	You can delete the current content. Operate according to the message.	55
<b>Dubbing</b>	You can access a menu to dub the current content.	100
<b>Finalize (R/RW)</b>	You can execute the DVD-Video finalizing process on the loaded disc.	122
<b>Format (RAM/RW)</b>	You can format the loaded disc.	34
<b>Setup</b>	A setup menu appears.	172

(Continued)

- **To exit the EASY NAVI**  
**Press EASY NAVI again.**

#### Note

- For a disc other than the specified one, the finder cannot be operated. To play the disc, exit the EASY NAVI then press the PLAY button, or select the “Play Contents” function.

#### ■ Quick Menu operation

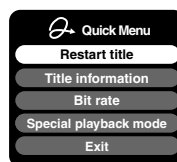
To access various optional functions of this recorder, open Quick Menu. Quick Menu displays a list of selections relevant to your current mode.

#### ● Opening Quick Menu

##### 1) Press QUICK MENU.

The following menu (“Quick Menu”) appears.  
(Actual selections vary depending on operational status.)

e.g.



- ##### 2) Press ▲ / ▼ to select an item, then press ENTER.

#### ● To exit Quick Menu

**Press QUICK MENU again.**

Alternatively

**Select “Exit” with ▲ / ▼, then press ENTER.**

## Hint on reading this manual

The following icons show the playable discs for each function described on this instruction manual.

**HDD** : HDD

**DVD-RAM** : DVD-RAM disc

**DVD-RW** : DVD-RW disc

**DVD-R** : DVD-R disc

**DVD-VIDEO** : DVD video disc

**VCD** : VIDEO CD

**CD** : Audio CD

(For CD containing JPEG or MP3/WMA files, see ➡ page 74, 76.)

Most instructions are based on remote control operation, unless otherwise noted. You can use the buttons on the remote control and those on the main unit as well when they have the same function.

If copy protection signal is detected during recording on this recorder, the recording automatically pauses and a message appears. In this case, the PAUSE button cannot release the recording. (It is possible to end the recording by pressing the STOP button.) If the copy protection signal continues, the recording will terminate.

# Recording

Recording variations for many types of programs or situations.

- **Before recording**
- **Setting a timer recording using TV Guide On Screen®**
- **Recording a TV program**
- **Recording an external source**
- **DV recording (Recording from a digital video camera)**
- **Deleting recorded contents**
- **Others**

# Before recording

Please be sure to read this critical background information prior to making a recording.

**This recorder is equipped with a built-in HDD. Conventional video cassette recorders have required tapes to record, while this recorder enables recording on the HDD whenever you want, without selecting an available tape or confirming its recording time or tape remaining. Further, the DVD-RAM drive on this recorder can record on a DVD-RAM/R/RW disc in the same way as a tape. You can also copy contents recorded on the HDD to a DVD-RAM/R/RW disc to create your own library.**

## ■ Is your recorder ready?

Before recording a TV program on this recorder, insure that channels you want to record are correctly tuned in on this recorder.

If not tuned in, read the separate "INSTALLATION GUIDE" volume again, and confirm all the necessary connections and settings have been done.

Also, insure the clock is set precisely for program recording.

## ■ Disc initializing

Whenever you use a new DVD-RAM disc on this recorder, be sure to initialize the disc. For DVD-RAM discs, initialization is indispensable to the database system of this recorder.

Normally, the HDD does not need to be formatted. If the HDD does not work normally due to a problem, format the HDD for possible recovery. Once you format the HDD, all the recorded titles and Library information are deleted. Before formatting, be sure to write library information to a DVD-RAM disc and check any titles to be deleted.

DVD-RW discs can be emptied by initializing.

DVD-R discs can be used on this recorder without initializing.

For details of initialization of DVD-RAM discs, see ➡ page 34.

If an initialized DVD-RAM disc is still unusable, it may become usable by executing "DVD-RAM physical format" in "Management settings" menu.

For "DVD-RAM physical format", see ➡ page 35.

## ■ Note on recording on a DVD-RAM disc

Confirm disc compatibility and prepare an available DVD-RAM disc to record on (➡ page 6, 8).

Some discs may need to be formatted for use on this recorder. A message will appear asking you to execute disc formatting. Follow the procedure displayed on-screen to format the DVD-RAM disc compatible with this recorder.

Some DVD-RAM discs formatted on a PC may not be usable.

## Note

- This recorder records on a DVD-RAM disc if it complies with DVD-RAM standard Version 2.0, 2.1 or 2.2. However, you may not record on some DVD-RAM discs that have complicated contents (often, to protect the recorded data). When you select a DVD-RAM disc that has already been recorded, check that the disc is suitable for recording or the remaining time of the disc is displayed. It is recommended to use a new DVD-RAM disc for an important recording.

## ■ Note on recording on a DVD-RW disc

Confirm disc compatibility and prepare an available DVD-RW disc to record on (➡ page 6, 9).

Some discs may need to be initialized for use on the recorder. A message will appear asking you to execute disc initializing. Follow the procedure displayed on-screen for initializing the DVD-RW disc compatible with this recorder.

Some DVD-RW discs initialized on a PC may not be usable.

To play a DVD-RW disc recorded on this recorder on an other device, finalize the DVD-RW disc on this recorder. (➡ page 122)

The finalization disables the disc's rewritability. To rewrite a finalized DVD-RW disc, cancel the finalization (➡ page 125).

- On DVD-RW discs recorded on other devices, you cannot execute DVD-Video finalize process or cancel the finalize process, or add recordings on this recorder.
- DVD-RW discs which are recorded on other devices and not finalized yet, cannot be read on this recorder. Do not rush to initialization. Check that the contents can be erased or not.

### ■ Note on recording on a DVD-R disc

Confirm disc compatibility and prepare an available DVD-R disc to record on (➡ page 6, 9).

To play a DVD-R disc recorded on this recorder on other devices, finalize the DVD-R disc on this recorder. (➡ page 122)

The finalization permanently disables the disc's writeability. (Canceling the finalization is not possible.)

- DVD-Video finalize process cannot be canceled if once executed on a DVD-R disc.
- On DVD-R discs recorded on other devices, you cannot execute DVD-Video finalize process or add recordings on this recorder.
- DVD-R discs with the method of "DVD-Video Creation" have been already executed the DVD-Video finalize process. Therefore, they cannot be added the contents.

### ■ If you want to record contents which will be copied to a DVD-R/RW disc later on

See ➡ page 48.

### ■ To check space remaining on a disc

#### 1) Press **REMAIN**.

The current capacity per disc is displayed at the bottom of the screen. The current capacity of the selected drive is displayed on the front panel display.

#### 2) After checking the capacity, press **REMAIN** again to turn off the display.

### ■ When "HDD recording is not possible due to..." appears

The HDD is full. To record new content, delete unnecessary titles or transfer some content to a DVD-RAM disc.

### ■ Programmed recording and operational status

The recorder gives priority to programmed recordings in every operating mode. Even if the recorder is playing, recording or editing, or even in standby mode, at a starting time of a programmed recording the recorder will make itself ready or stop those operations and start the recording. However, "Creating a DVD-Video using DVD-R/RW" (➡ page 112) and "DVD-Video finalizing process" (➡ page 122) operations may have priority over programmed recordings.

### ■ When the programmed settings overlap

Before the first recording is completed, the second program is scheduled to begin recording. When using a DVD-RAM disc, the recording of the previous program stops 10 seconds before the next program starts. (If you have been recording over 9 hours on the same drive, the current recording stops approximately 2 minutes before the next programme starts.) When using a DVD-R/RW disc, the recording of the previous program stops about 2 minutes before the next program starts, to complete data process. In this 2 minutes, you cannot operate the loaded DVD-R/RW disc.

### Notes

- The "Loading" icon appears in the top right of the screen after recording. This indicates that the unit is executing the final recording process (writing managing information). Operations other than changing channels cannot be done until this icon disappears. The time for executing this process differs depending on the recording time or capacity of the disc.
- Note that all recording content may be deleted if the unit is disconnected from a wall outlet, or a power failure occurs, during recording.
- If a power failure occurs within 5 minutes prior to the programmed recording start time, the programmed recording may not be executed.

## Initializing a DVD-RAM/RW disc (Logical format)

**Be sure to read this section prior to using a DVD-RAM/RW disc on this recorder for the first time. For DVD-R, initializing is not necessary.**

A disc should be initialized in the following cases: (The recorder may display a message to request you to do so.)

e.g.

- When you use a DVD-RAM/RW disc on this recorder for the first time.
- If data fragments produced by repeated recording or erasing have accumulated.
- If a disc error has occurred.
- When you want to record on a DVD-RAM disc for PC. (➡ page 8)

Initializing formats a disc logically and insures that it will perform to its full capability. However, this erases all data on the disc, so make sure that it does not matter if data on the disc is erased whenever you initialize a disc.

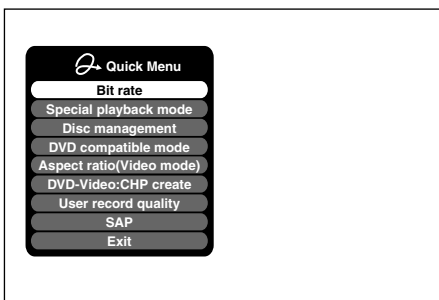
### ■ How to initialize a disc

To initialize a DVD-RAM disc, load it in the recorder. See ➡ page 20 for loading a disc.

#### 1) Press QUICK MENU.

The following menu appears. (The actual contents depends on the operational status of the recorder.)

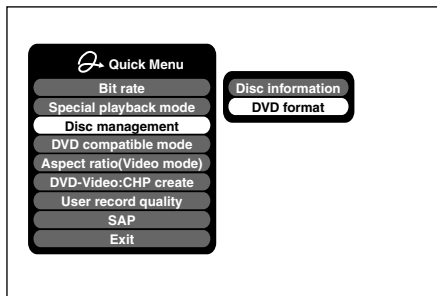
e.g.



#### 2) Press ▲ / ▼ to select “Disc management,” then press ENTER.

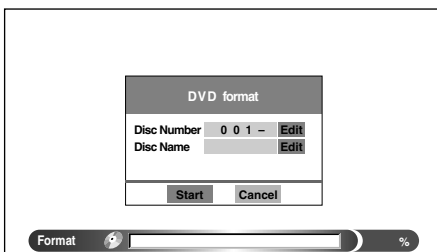
A sub menu appears on the right side.

e.g.



#### 3) Press ▲ / ▼ to select “DVD format,” then press ENTER.

e.g.



### Numbering a disc

The recorder automatically numbers discs when initializing. However, you can assign a desired number (using 3 digits) and designate sides A and B on a double-sided disc. (DVD-RW discs cannot be numbered.)

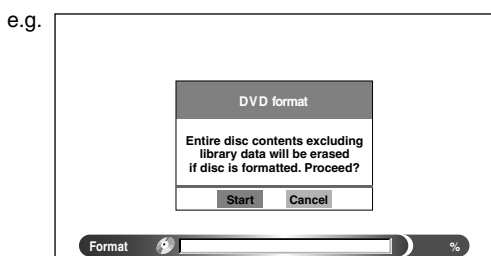
- (1) Press ▲ / ▼ buttons to select “Edit” of “Disc Number” then press the ENTER button.
- (2) Press ▲ / ▼ buttons to select a digit.
- (3) Press ◀ / ▶ buttons to shift.
- (4) Repeat steps (2) and (3).
- (5) Press ENTER button.

### Naming a disc

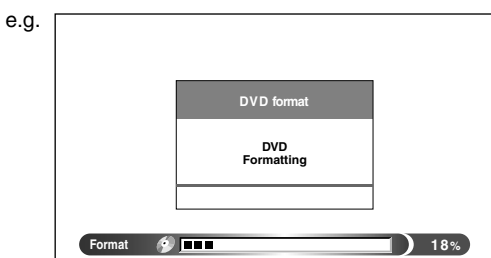
You can name a disc.

- (1) Press ▲ / ▼ buttons to select “Edit” of “Disc Name,” then press ENTER button.  
The character input window appears.
- (2) Enter a disc name following the procedure of “Entering characters” (➡ page 36).
- (3) Press ★ button to eliminate the window.

- 4) Press ◀/▶ to select “Start,” then press ENTER.



- 5) Press ◀/▶ to select “Start,” then press ENTER.  
Initialization starts.



When the initialization is completed, the setup window disappears.

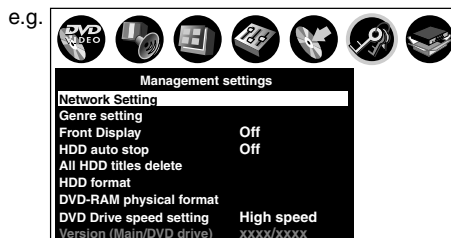
## DVD-RAM physical format

Physical formatting is a simple execution for a disc which cannot be used or read (or which is becoming hard to read). It may refresh such a disc for recording and playback. (There is no guarantee that all such discs will be recovered.)

“DVD-RAM logical format” process only rewrites certain data on file system and management information, however, “DVD-RAM physical format” rewrites all data on a disc, therefore it takes a much longer time to complete. For a 4.7GB single sided DVD-RAM, about 70 minutes will be necessary. While processing, all recorder operations and functions including program recording will not work until the process is finished. Also this process erases all data stored on the DVD-RAM disc.

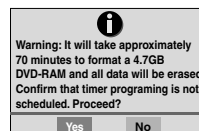
- 1) Press SETUP.

- 2) Press ◀/▶ to select “Management settings” then press ENTER.



- 3) Press ▲/▼ to select “DVD-RAM Physical Format,” then press ENTER.

- 4) Press ◀/▶ to select “Yes,” then press ENTER to execute.



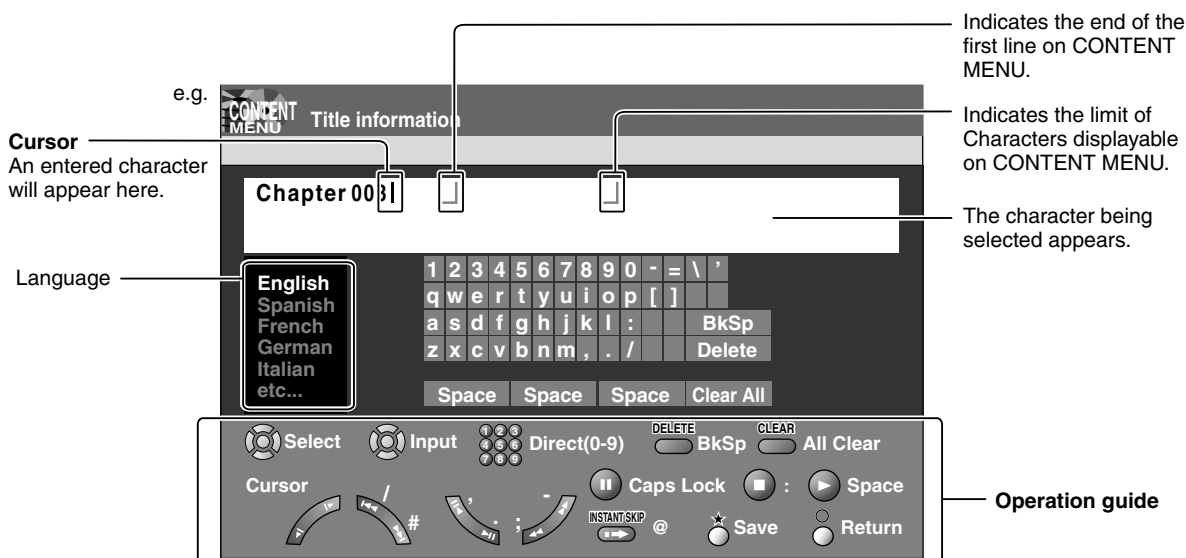
To cancel, select “No”, then press ENTER button.

- 5) Read the message, and press ◀/▶ to select “Yes” or “No”, then press ENTER.

### Notes

- The physical format process may fail if executed to a dirty DVD-RAM disc. Also, the disc may be difficult to record, even if it is finished. Before executing DVD-RAM physical format process, be sure to confirm the disc is not dirty. Clean it if necessary. If the disc has scratches or dust beyond cleaner's efficacy, do not execute DVD-RAM physical format process on the disc.
- The following DVD-RAM discs require physical formatting:
  - A disc which is not formatted correctly.
  - The disc which has errors during writing because of dirt on the disc, and cannot be further recorded, or cannot initialize normally.
- You need to start physical formatting from the first step again when you use a failed disc.
- Physical formatting does not work if the disc contains a lot of voids beyond the limitation of this recorder.
- If an error occurs in physical formatting, “ERR-01” appears in the front panel display. To turn off the message, press DISPLAY button on the remote control.

## Entering characters



### ■ Operation guidance of the remote control

To enter the character, normally use ▲ / ▼ / ◀ / ▶ buttons on the remote. About the other buttons to be used are shown on the operation guide.

◀ / ▶ : Shifts the cursor.

0 1 2 3 4 5 6 7 8 9 : Enters a number.

DELETE : Erases one character immediately to the left side of the cursor.

CLEAR : Erases all the characters.

⏸ : Caps Lock

★ : Saves the changes and returns to the previous screen.

○ : Cancels the changes and returns to the previous screen.

▶ : Enters a space.

◀ / ▶ / ◀ / ▶ / ◀ / ▶ : Enters a symbol.

### ■ Switching a language

Before entering a character, move a cursor to the language selection area by pressing ◀ / ▶ buttons. Then press ▲ / ▼ buttons to select a language, then press ENTER button.



## ■ Entering characters

The cursor may be followed by unwanted characters.  
You can erase them if necessary by either of the following measures:

### Erasing characters

- Erasing all the characters on the writing board  
Select "Clear All" by pressing ▲ / ▼ / ◀ / ▶ buttons, then press ENTER button.  
Alternatively, press CLEAR button.
- Erasing one character before the cursor  
Select "BkSp" by pressing ▲ / ▼ / ◀ / ▶ buttons, then press ENTER button.  
Alternatively, press DELETE button.

- (1) Press ■ button to select an input mode.
- (2) Press ▲ / ▼ / ◀ / ▶ buttons to select a character, then press ENTER button.  
The selected character is input on the cursor.
- (3) Repeat steps (1) and (2) to enter characters.
- (4) When finished, press ★ button to save the characters.  
The characters you entered appears.

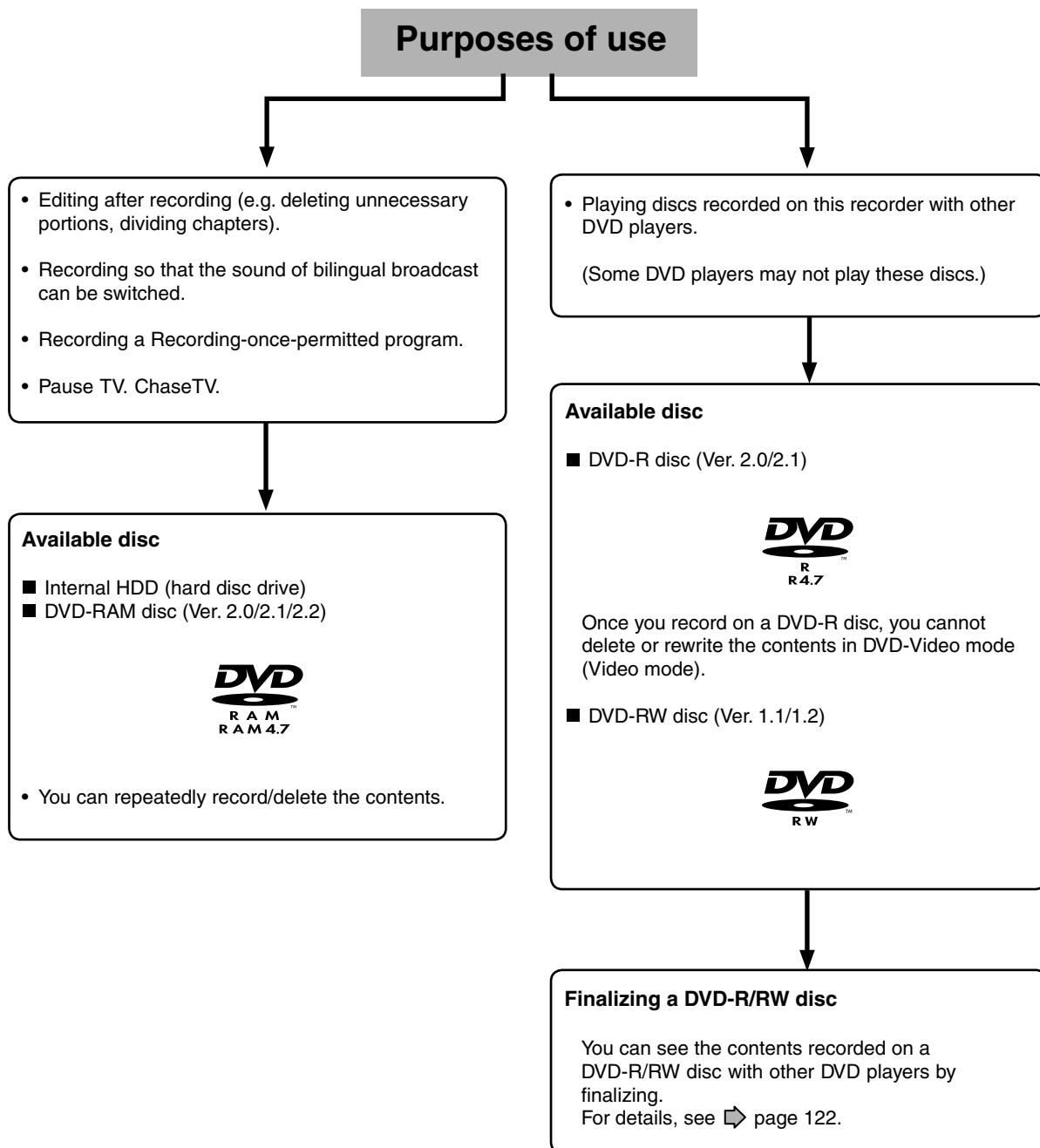
### Notes

- You can enter up to 64 characters.
- When unnecessary information appears, or when you want to alter the input character, press CLEAR button to erase all, or press DELETE button to erase an unnecessary character.

## Selecting a disc according to purposes of use (DVD-RAM/R/RW)

There are various types of discs having different standards.

Select one for your purpose of use.



When recording on a DVD-R/RW disc you need to set up the recorder due to the restriction by the DVD-Video standard.  
For details, see the next page.

## Setting for recording on a DVD-R/RW disc in Video mode

This setting is necessary to play the contents on a DVD-R/RW disc with other DVD players.

### ■ Items to set up

When recording in Video mode, there are some restrictions by DVD-Video standard. Therefore, it is necessary to set up these items below. Set up the items in advance before copying contents from the HDD to a DVD-R/RW disc.

#### ● DVD compatible mode

Only the main sound and SAP sound are available for recording in Video mode under DVD-R/RW standard.

**Off:** This is not for recording on a DVD-R/RW disc. Depending on Picture/Audio settings, making DVD Video may not be possible. (When recording directly on a DVD-R/RW disc in DVD-Video mode, the recording proceeds with "Main" on even though "Off" is set.)

**Main:** In multichannel broadcasting, only the main sound is recorded.

**SAP:** In multichannel broadcasting, only SAP sound is recorded.

#### ● Aspect ratio

"4:3" and "16:9" cannot be mixed in one title. Therefore, set the aspect ratio before recording.

**4:3:** Set the aspect ratio to 4:3

**16:9:** Set the aspect ratio to 16:9

#### ● Chapter dividing ("DVD-Video:CHP Create")

This is the setting to divide a title into some chapters. It is convenient to skip scenes.

**Off:** Chapter dividing is not available.

**5 min, 10 min, 15 min, 20 min:**

Select an interval for chapter dividing.

### Note

- When the number of chapters reaches a limit, chapters are not divided anymore. The limit number of chapters is dependent on conditions of a DVD-R/RW disc.

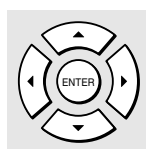
### How to set up

#### 1 Press SETUP.



SETUP menu appears.

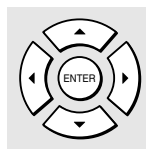
#### 2 Select "DVD recorder operation" and press ENTER.



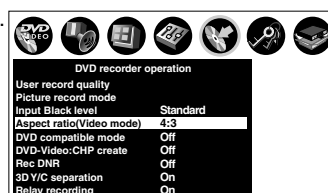
e.g.



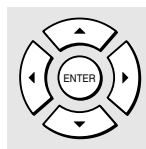
#### 3 Select "Aspect ratio (Video mode)" and press ENTER.



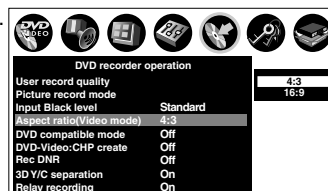
e.g.



#### 4 Press ▲ / ▼ to select an item and press ENTER.



e.g.



Set up "DVD compatible mode" and "DVD-Video: CHP create" as step 3, 4.

# Setting a timer recording using TV Guide On Screen®

To record TV programs and end them automatically, follow the procedures of this chapter.  
When using a satellite box, only manual timer recordings are available for setting recordings.

See ➡ page 43.

Before setting recording, see “Before recording” (➡ page 32).

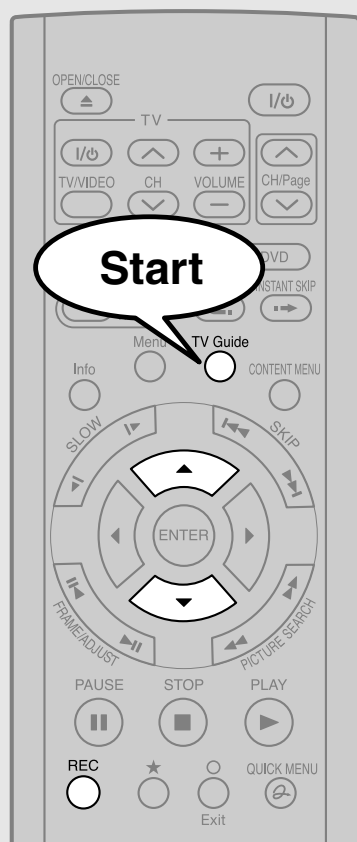
## ■ Preparation

- When you record on a DVD-RAM/R/RW disc, load it into the recorder.
  - Load a disc which has sufficient remaining space to record the program.
  - Make sure the loaded disc is not write-protected.
- Make sure that the disc has enough space to record.
- Set “DVD Compatible mode” beforehand. (➡ page 39)
- To record satellite TV programs, set a recording manually (➡ page 43)

If you **do not need to change recording options** (recording mode or time range), see “With recording frequency selection only” below.

If you want to change these recording options, follow the procedure of “Changing the recording options” procedure (➡ page 41) or “Set recording by specifying details manually” (➡ page 43).

## With recording frequency selection only



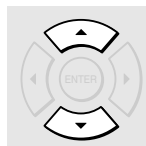
### 1 Press TV Guide.

TV Guide On Screen LISTINGS appears.



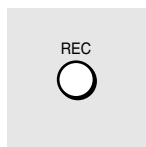
### 2 Press ▲ / ▼ to select a TV program to record.

For searching a TV program, see ➡ page 24.



### 3 Press REC repeatedly to select the recording frequency.

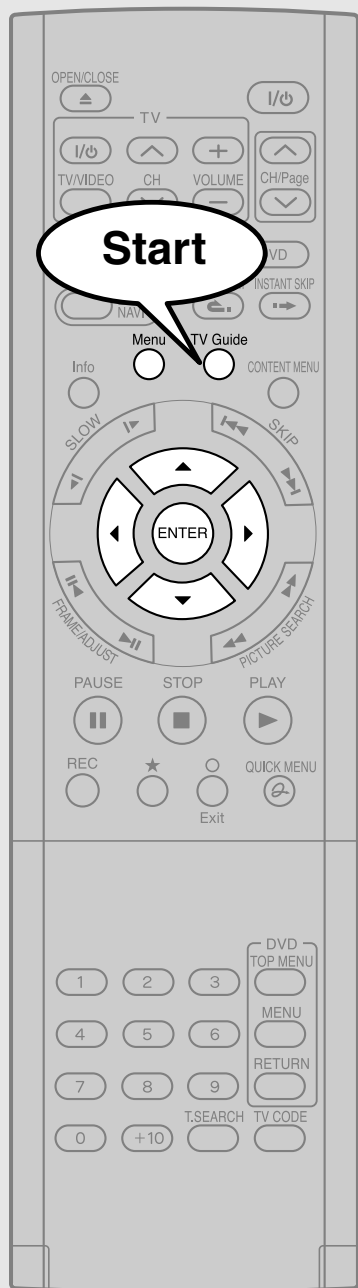
Each time you press REC button, the icon changes.  
For the icons, see ➡ page 42.



## Note

- Recording will be executed on the default settings (➡ page 28).

## Changing the recording options

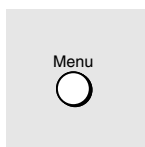


**1** Press TV Guide, then press **▲ / ▼** to select a TV program to record.



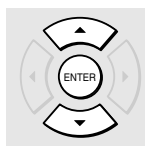
Or to search for a TV program, see ➡ page 24.

**2** Press Menu.



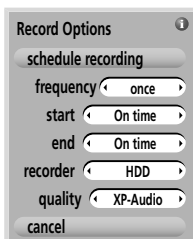
"Episode Options" appears.

**3** Press **▲ / ▼** to select "set recording" then press ENTER.

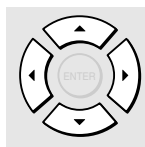


"Record Options" appears.

e.g.



**4** Press **▲ / ▼** to shift and press **◀ / ▶** to select.



frequency:  
See the next page.

start:  
Choices are between 120 minutes early and 120 minutes late, to "On time". (Default = "On time")

end:  
Choices are between 120 minutes early and 120 minutes late, to "On time". (Default = "On time")

(Continued)

recorder:  
HDD: Records onto the HDD.  
DVD: Records onto a loaded disc.

quality:  
See “Recording mode”

**5** When complete, press **▲ / ▼** to select “schedule recording” then **ENTER**.













“Record Options” is closed.  
The icon appears on the TV program.

**Note**  
If you cancel the selections, select “cancel” then press ENTER button.

■ Frequency of recordings/reminders and icon

- Recording
- 🕒 Reminder

Icon	Meaning
Once  	One time execution
Regularly  	For a program on the same channel and at the same start time
Daily*  	For a program on the same channel and at the same start time of Monday through Friday
Weekly  	For a program on the same channel and at the same start time on the selected day of the week.
Off  	Keeps information without executing, until the frequency is changed.

\*For “new manual recording” and “new manual reminder” only.

■ Recording quality (recording mode)

Mode	Bit rate	Sound quality	Recording time*
XP-Audio	8.0	L-PCM	1
XP	9.2	D/D/M2	1
EXP-Audio	4.8	L-PCM	1.5
EXP	6.2	D/D/M1	1.5
SP-Audio	3.2	L-PCM	2
SP	4.6	D/D/M1	2
MP	3.0	D/D/M1	3
LP	2.2	D/D/M1	4
EP	1.4	D/D/M1	6
SEP	1.0	D/D/M1	8
User	See ➡ page 183.		

\*4.7GB DVD-RAM disc

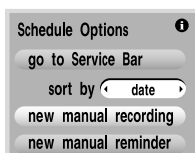
The recording times listed above are for reference purposes only and are not guaranteed. Recording times may vary.

## Setting recording by specifying by details manually

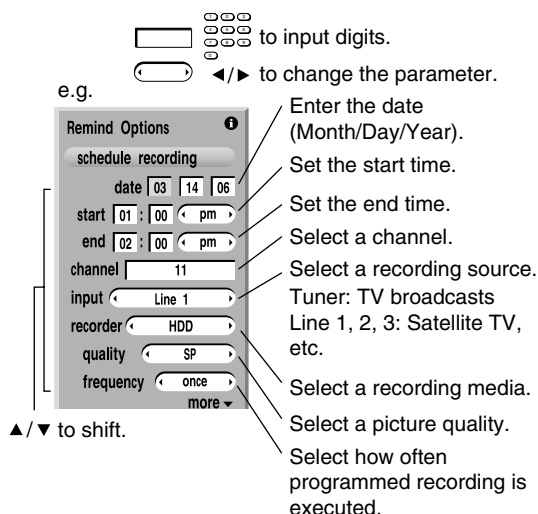
- 1) Press TV Guide.
- 2) Press ◀/▶ to select "SCHEDULE".



- 3) Press Menu.  
"Schedule Options" appears.
- 4) Press ▲/▼ to select "new manual recording" then press ENTER.  
"Record Options" appears.



- 5) Set the details.



- 6) When finishing the setting, press ENTER to select "schedule recording".
- 7) Press ENTER again to close "Record Options".

## Setting recording (For satellite box users)

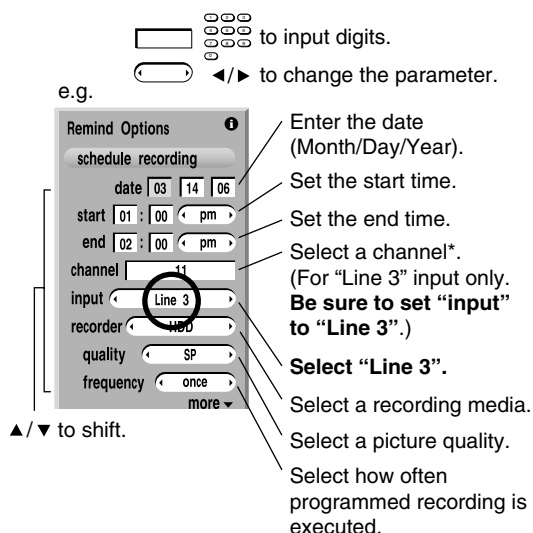
- 1) Press TV Guide.
- 2) Press ◀/▶ to select "SCHEDULE".



- 3) Press Menu.  
"Schedule Options" appears.
- 4) Press ▲/▼ to select "new manual recording" then press ENTER.  
"Record Options" appears.



- 5) Set the details.



\* Available only when "IR control" is set to "On".

- 6) When finishing the setting, press ENTER to select "schedule recording".
- 7) Press ENTER again to close "Record Options".

### Notes

- The disc tray does not close automatically, even when the recording start time arrives. Set the recorder loaded an available DVD-RAM/R/RW disc beforehand.
- It is not possible to record the same contents onto both the HDD and a DVD-RAM/R/RW disc simultaneously.
- When there is little time before a programmed recording starts, you may not be able to start another recording.
- Playback of the DVD drive pauses when a programmed recording onto the HDD starts.
- Do not change TV Guide On Screen settings (e.g., cable input, brand, etc.) while a recording is programmed. After then, make the programming again if necessary.
- Confirm the "DVD compatible mode" (▶ page 184) setting. "Main" or "SAP" records main sound or sub-sound of multiplex broadcasts respectively, and does not record the other. Therefore, select "Main" or "SAP" only when you record onto a DVD-R/RW disc.
- When recording onto a DVD-R/RW disc, set "DVD compatible mode" (▶ page 184) to the desired recording sound for each timer program.
- When recordings conflict, "RECORDINGS CONFLICT!" appears. Read the message, and choose an option by pressing ▲/▼ then press ENTER button.

#### ■ Deleting a recording

2 ways are available.

On LISTINGS

- 1) Press TV Guide.
- 2) Select a TV program you have set to record (icon displayed).
- 3) Press Menu.  
"Episode Options" appears.
- 4) Press ▲ / ▼ to select "delete recording", then press ENTER.
- 5) Read the message, and press ▲ / ▼ to select "yes" (if you want to delete), then press ENTER to exit.

On SCHEDULE

- 1) Press TV Guide.
- 2) Press ◀ / ▶ to select "SCHEDULE".
- 3) Press ▲ / ▼ to select a TV program you have set to record.
- 4) Press Menu.  
"Episode Options" appears.
- 5) Press ▲ / ▼ to select "delete recording", then press ENTER.
- 6) Read the message, and press ▲ / ▼ to select "yes" (if you want to delete), then press ENTER to exit.

#### ■ Correcting a recording

- 1) Press TV Guide.
- 2) Press ◀ / ▶ to select "SCHEDULE".
- 3) Press ▲ / ▼ to select a TV program you have set to record.
- 4) Press Menu.  
"Episode Options" appears.
- 5) Press ▲ / ▼ to select "edit recording", then press ENTER.  
"Record Options" appears.
- 6) Change the selections.
- 7) Press ▲ / ▼ to select "schedule recording", then press ENTER.

#### ■ To stop a scheduled recording

- 1) Press TV Guide.
- 2) Press ▲ / ▼ / ◀ / ▶ to select the TV program currently being recorded.
- 3) Press REC repeatedly until the recording icon disappears.

#### ■ Turning the power off automatically after completing a scheduled recording

- 1) While executing a scheduled recording, press QUICK MENU.  
Quick Menu appears.
- 2) Press ▲ / ▼ to select "Auto power off" then press ENTER.

#### ■ Keeping the power on even after the scheduled recording finished

If the recorder turns itself on to execute a scheduled recording, it will turn itself off after finishing the recording. You can restrict this and keep the recorder powered on.

- 1) While executing a scheduled recording, press QUICK MENU.
- 2) Press ▲ / ▼ to select "Continuous power on" then press ENTER.



# Recording a TV program

To record a TV program currently being broadcast, follow the procedures of this chapter.

## ■ Preparation

- When you record on a DVD-RAM/R/RW disc, load it into the recorder.
  - Load a disc which has sufficient space available to record the program.
  - Make sure the loaded disc is not write-protected.
- If you record on a DVD-R/RW disc, set "DVD compatible mode" (➡ page 184) to "Main" or "SAP." In DVD-R/RW recording, "Off" setting is regarded as "Main."
- If you record on a DVD-R/RW disc, set "Aspect Ratio(Video mode)" (➡ page 184) according to recording sources.



## 1 Press HDD or DVD to select a media to record on.

HDD

HDD : To record on the HDD.

DVD

DVD : To record on a DVD-RAM/R/RW disc.

## 2 Select a channel to record.

CH/Page

Use any of the followings:

- CH/Page buttons (↕)
- Number buttons
- TV Guide On Screen (➡ page 23)

1 2 3  
4 5 6  
7 8 9  
0

## 3 Press REC MODE repeatedly to select the recording mode.

REC MODE

Each time you press the button, the recording mode indicator (SP/LP/MN) on the front panel changes.

### Recording mode

The REC MODE button sets the following recording modes; 2 modes (SP, LP) with fixed picture and sound quality, and 1 (MN) for your customizing.

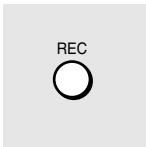
e.g. When a single sided 4.7GB DVD-RAM is used:

Recording mode	Recording time	Picture quality
SP	Approx. 2 hours	Standard quality
LP	Approx. 4 hours	Inferior to SP
MN	Variable according to your setting. See ➡ page 46, 183.	

(Continued)

You can set in advance the desired mode for each recording media ("HDD", "DVD"). See below.  
Also for your customization of the MN mode, see below.

4 Press REC.



Recording starts.

■ Customizing the MN mode

- 1) During stop or at step 3 on ➡ page 45, press QUICK MENU.
- 2) Press ▲ / ▼ to select "User record quality" then press ENTER.
- 3) Change the setting for each recording media.

- Press ◀ / ▶ to select "HDD" or "DVD".
- Press ADJUST to select the setting number (1 - 5).

e.g.

User record quality			
	HDD	Setting 1	DVD
	Manual 6.6	L-PCM	SP 4.6 DD1
Custom setting			
Setting	Mode	Rate	Audio quality
1	Manual	6.6	L-PCM
2	SP	4.6	DD1
3	LP	2.2	DD1
4	Manual	6.0	DD2
5	Manual	3.2	DD1
Total recording time: approx. 71min. (with 4.7 GB unused)			

You can customize each setting.  
Press ▲ / ▼ / ◀ / ▶ to select "Mode", "Rate" or "Audio quality", then press ADJUST to change the value.

Notes

- To record a high quality picture, select "MN" to raise a bit rate. The higher the bit rate, the better the picture quality is, but the shorter the recording length becomes. We recommend that you set this between 6.0 Mbps and 6.8 Mbps.
- You can change the combination of picture and audio quality settings also by displaying the Quick Menu on LIBRARY MENU or in stop mode, then selecting "User Record Quality". Either of the above methods updates the setting of this recorder.
- If you set "SP" or "LP", you cannot select "L-PCM".
- Depending on the audio quality settings, the upper limit for the picture quality setting differs.
- You can adjust the manual rate for picture quality by 0.2 Mbps from 2.0 to 9.2. (You cannot set the rate from 1.4 to 2.0.)

- 4) Press ENTER.  
The menu disappears.

## Notes

- During recording, you cannot change the recording parameters, such as modes, channels, etc.
- The number of titles cannot exceed 99 for a DVD-RAM/R/RW disc or 396 for the HDD.
- One continuous recording cannot exceed in any case 9 hours. Recording automatically stops at 9 hours.
- Even during normal recording, you can set the programmed recording.
- You cannot start recording immediately before a programmed recording starts.
- For recorded sound, see ➡ page 73.
- During monaural sound recording, the same sound is recorded on both the left and right channels.
- When "Audio" is set to "L-PCM", multi-channel sound is recorded as stereo sound. When playing this recorded sound, you will hear MAIN and SAP sounds simultaneously. Press AUDIO button to select a desired sound.
- When "DVD compatible mode" is set to "Main" or "SAP", the unit records the same sounds on both the left and right channels when receiving monaural sound. When receiving the multi-channel sound, the selected sound, Main or SAP, is recorded on both the left and right channels.
- Depending on the disc contents, pressing REC button may take a longer time to start recording.
- When a starting time of a programmed recording comes, a recording in execution is stopped and the programmed recording starts. If you do not want to stop the recording, cancel the timer program before it starts.
- Even if you set "Aspect ratio(Video mode)" (➡ page 184) to "16:9", images are recorded in 4:3 aspect ratio when using a DVD-R/RW disc with "Rate" set to "1.0" (Mbps) or "1.4" (Mbps).

## ■ To stop recording

Press STOP.

## ■ To pause recording (to omit an unnecessary portion)

During recording, press PAUSE.

To resume recording, press it again.

### Note

- Pausing recording automatically creates a new chapter division at that point.

## ■ To change a TV channel to be recorded

- 1) During recording, press PAUSE.  
Recording pauses.
- 2) Press CH/Page or the number buttons to change the channel.
- 3) Press PAUSE to resume recording.

## ■ To view a TV program while recording another

- 1) Start recording on this recorder.
- 2) On a connected TV, select the TV mode.
- 3) Using the channel selector of the TV, select a desired channel on the TV.

## ■ To reduce noise on recordings (Rec DNR)

Before recording, set "Rec DNR" (➡ page 185).

## ■ To record and play at the same time

### ● To start recording while playing a disc

Stop playback, then select the other disc by pressing HDD or DVD button, and start recording on that disc.

### ● To play a disc while recording on another disc

Select the disc that is not being recorded by pressing HDD or DVD button, and start playback on the disc.

### Note

- During a dubbing job, the unoccupied drive is available for recording or playback, however, cannot perform a function which records and plays simultaneously.

### Recording a TV program (Continued)

#### ■ To play a recorded title while recording another on the same disc (Recorded Title Play)

HDD DVD-RAM

During recording, you can play a title recorded on the same disc.

1) While recording, press **CONTENT MENU**.

2) Press **▲ / ▼ / ◀ / ▶** to select a desired title, then press **ENTER**.

Playback of the selected title starts.

Pressing **STOP** button stops playback, and the content currently being recorded returns. If you press **PLAY** button, playback resumes from the location you last stopped.

#### Notes

- The playback picture may appear after a delay of several seconds.
- While you are using this function, the following operations/functions are not available.
  - Programmed playback (repeat playback, intro scan etc.)
  - Editing (Playlist programming, dubbing, title/chapter naming, title thumbnail setting, etc.)
- This function is not available during the 10 minutes overlapped portion of the relay recording (➡ page 56).
- Depending on the data condition, playback may pause.
- During a dubbing job, this function is not available.

#### ■ When recording contents which will be copied to a DVD-R/RW disc later on

Before recording, set "DVD compatible mode" (➡ page 184) to "On".

Each timer program must be set its "DVD compatible mode" from Quick Menu.

#### ■ Creating chapters while recording

Press **CHP DIVIDE** button.

The content is divided into two chapters at the point you pressed the button.

#### Note

- If you want to divide into chapters at desired points on DVD-R/RW discs, use this method. On those discs, you cannot create chapters after recording.

#### ■ Creating chapters automatically at regular intervals

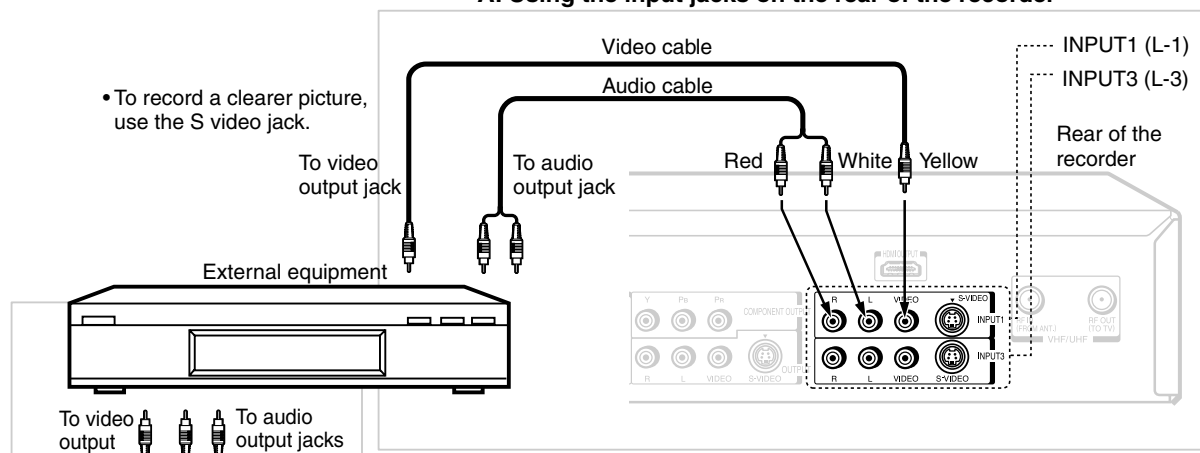
Set "DVD-Video:CHP Create" (➡ page 185).

# Recording an external source

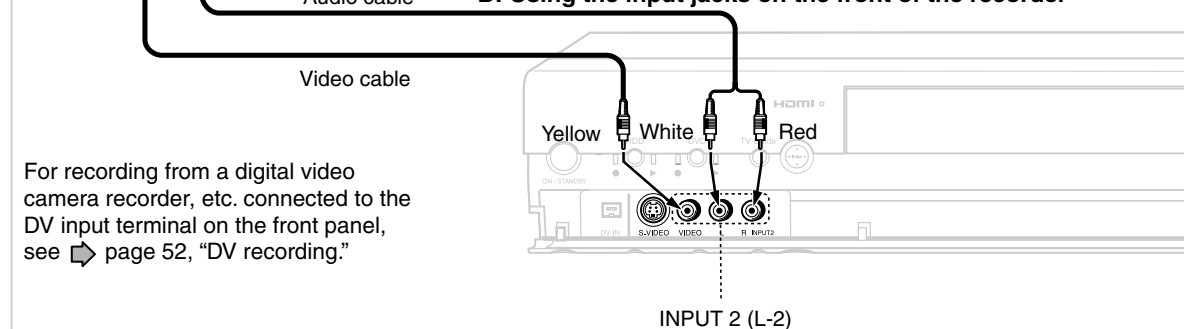
You can record programs from connected equipment on the HDD or a DVD-RAM/R/RW disc.

Connect according to A or B.

## A: Using the input jacks on the rear of the recorder



## B: Using the input jacks on the front of the recorder

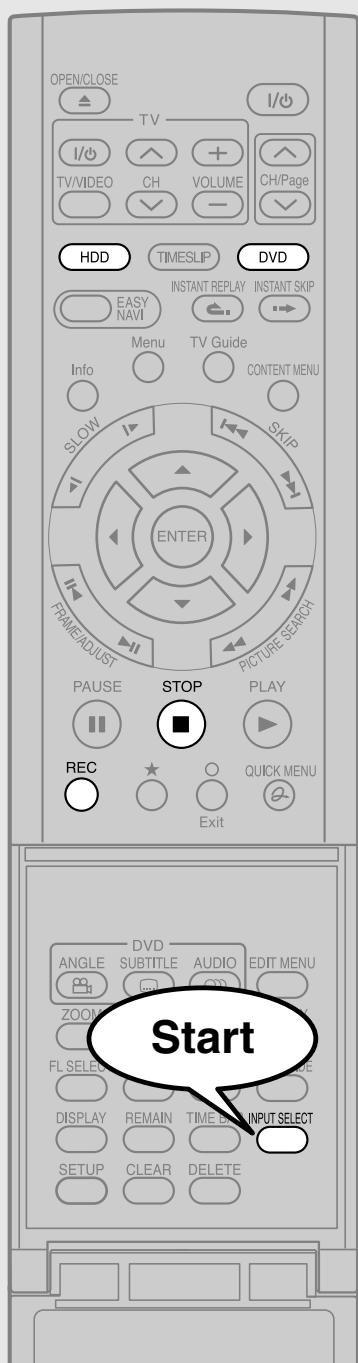


## ■ Preparation

- When you record on a DVD-RAM/R/RW disc, load it into the recorder.
  - Load a disc which has sufficient remaining space to record the program.
  - Make sure the loaded disc is not write-protected.

## Notes

- If a source of high quality sound track such as DVD audio is recorded with this recorder, the sound quality becomes regular audio CD quality. Refer to the instructions of the connected equipment.
- When you record an external source onto a DVD-R/RW disc or the contents which will be copied to a DVD-R/RW disc later on, set the connected equipment to output sound you want to record (if selectable such as multiplex broadcasting), as the recorder records sounds of an external source in stereo onto a DVD-R/RW disc, ignoring the setting of "DVD compatible mode" (page 184).
- DVD-R/RW discs cannot record contents with copy restriction signal embedded (copy-protected or copy once contents), DVD-RAM discs can record copy once contents.
- Some satellite programs via a connected tuner may contain both 4:3 pictures and 16:9 pictures. DVD-R/RW discs cannot record such contents under the restriction of the DVD-Video standard. To record these programs, use the HDD or DVD-RAM discs.
- Depending on the source recording device used and how that device is set up, the video and sound quality of the recording may vary slightly from the video and sound quality of the source device.



**1** Press **INPUT SELECT** repeatedly so that “L-1,” “L-2,” or “L-3” appears on the front panel display, corresponding to the input in which the device is connected.



Each time you press the button, the indicator changes.

**L-1:** To record pictures from equipment connected to the INPUT1 jacks on the rear panel.

**L-2:** To record pictures from equipment connected to the INPUT2 jacks on the front panel.

**L-3:** To record pictures from equipment connected to the INPUT3 jacks on the rear panel.

**L-U:** To record pictures currently played (➡ page 110).

Select “L-3” to record pictures from a connected satellite box using the DSS set top box control function.

**2** Press **HDD** or **DVD** to select a recording media.



**HDD :** To record on the HDD.

**DVD :** To record on a DVD-RAM/R/RW disc.



**3** Press **REC** of this recorder to start recording.



**4** Start playback of the source content on the connected equipment.

**5** When recording is completed, press **STOP**.



## ■ Notes on recording from a connected VCR or camcorder

### ● Check the condition of the source equipment before playing.

Set the equipment in a good condition, e.g. clean the head or adjust the tracking, etc. to obtain optimum playback. Bad conditions may produce noises in playback. These noises may be detected as copy protection signals, resulting in a stoppage of the recording.

Play a source in an usual mode. Avoid using any correcting or enhancing features, as they may add signals which can be detected as copy protection signals.

Source quality or tape condition beyond adjustments on the source equipment may stop a recording on this recorder.

### ● Do not operate the source equipment during recording on this recorder.

Operations such as pausing, resuming, fast-forwarding (CUE) and fast-reversing (REVIEW), etc. may produce noises, which may be detected as copy protection signals. Therefore, first start playback on the source equipment to confirm that the desired source can be played properly, and then start recording on this recorder.

Do not operate the source equipment during recording. After completing the desired scene, stop the recording on the recorder, and then stop the playback on the source equipment. Delete unnecessary scenes using editing functions (▶ page 55). If you want to operate the source equipment during recording, pause or stop the recording. After operating the source equipment, resume the recording as above.

### ● When recording from a camcorder

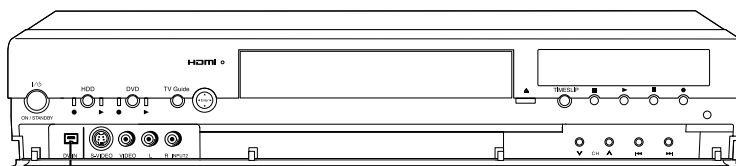
Follow the above notes. Be sure to power the camcorder with its AC adapter, not batteries. If batteries are run down, the recording may not be finished completely.

# DV recording (Recording from a digital video camera)

You can connect a DV format digital video camera to the DV IN terminal to record from it.

## ■ Preparation

- Press HDD or DVD button to select a recording media
- Connect a DV format digital video camera to the DV IN terminal on the front panel.



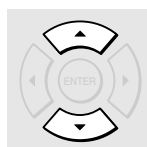
DV IN terminal

## 1 Press EDIT MENU.

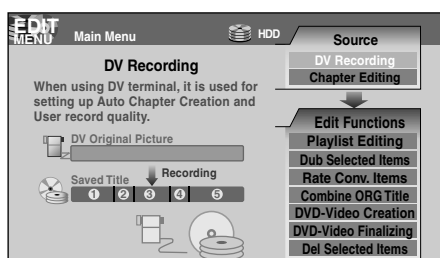


"EDIT MENU Main Menu" appears.

## 2 Press ▲ / ▼ to select "DV Recording".



e.g.

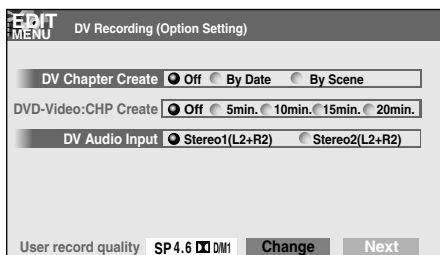


## 3 Press ENTER.



"EDIT MENU DV Recording (Option Setting)" appears.

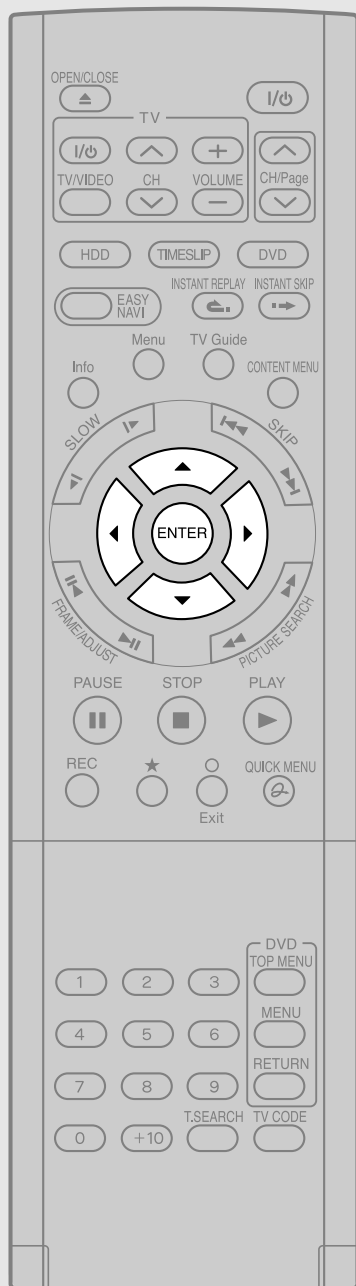
e.g.



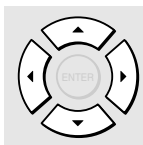
This display will also appear when a DV format digital video camera connected to the DV IN terminal is turned on.

Start





## 4 Press ▲/▼/◀/▶ to make the settings.

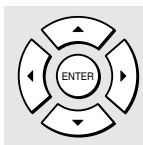


As you select each item, an explanation is provided.

To change the picture and sound rates:

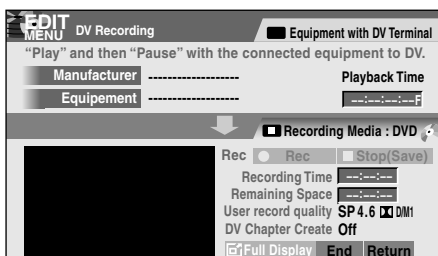
- 1) Press ▲/▼ buttons to select "Change" then press ENTER button.
- 2) On the "User record quality" display, press ADJUST button to select a setting number.
- 3) Press ENTER button.

## 5 Press ▲/▼/◀/▶ to select "Next", then press ENTER.



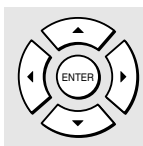
Details of the recording appears.

e.g.



## 6 Play a connected DV format digital video camera and pause the playback at a desired scene.

## 7 Press ▲/▼/◀/▶ to select "Rec", then press ENTER.



Recording starts.

- To pause the recording, select "Pause" by ▲/▼/◀/▶ buttons then press ENTER button.
- To stop the recording, select "Stop (Save)" by ▲/▼/◀/▶ buttons then press ENTER button.

### DV Recording (Recording from a digital video camera) (Continued)

#### Notes

- The DV IN terminal of this recorder supports only input from a DV format digital video camera. It cannot output to a connected device. Some models of DV format digital video cameras may be not compatible.
- At step 5, you can enlarge the video image by selecting "Full Display", then pressing ENTER button.
- If "DV Chapter Create" is set to "Off" and you record onto a DVD-R/RW disc, chapters are automatically made according to "DVD-Video:CHP create" setting (➡ page 185). The number of chapters has the limit. Chapters are divided with a margin of about 0.5 second or less according to the DVD-Video standard.
- DV recording does not start in the following cases:
  - While recording or in the time slip mode.
  - While operating TV Guide On Screen, CONTENT MENU or LIBRARY MENU.
  - If the recorder's clock is not set yet.
  - Within 2 minutes before programmed recording starts, or during programmed recording.
- If DV recording overlaps with programmed recording, the DV recording will stop 2 minutes before the programmed recording starts, and the programmed recording will be executed.
- DV recording does not work if the DV IN terminal is connected to equipment other than DV format digital video camera, such as a PC.
- Depending on the connected DV format digital video camera, the display at step 5 may not show "Manufacturer" or "Equipment".
- If the DV IN terminal is connected to more than one DV format digital video camera, DV recording may not work properly. For proper functioning of DV recording, connect only one device to the DV IN terminal.
- DV recording is not compatible with Relay recording.
- Do not keep the DV IN terminal connected unless you record from a DV format digital video camera, as it may give influence on the recorder if operated.
- If you leave "EDIT MENU DV Recording" unoperated for about 15 minutes, it switches to the full mode if "Screen protector" (➡ page 181) is set to "On."
- When you want to record both stereo 1 and stereo 2 sounds from a DV format digital video camera, additionally make a connection to the audio input jacks on this recorder using cables such as audio/video cables supplied with the DV format digital video camera. (➡ page 52)
- If a DV format digital video camera is not recognized, pull out the plug and connect it again.
- Some models of DV format digital video cameras may support a different compression format. From such equipment, recording is not possible.
- Depending on the models of DV format digital video cameras, recording may not work properly or some functions may be disabled.
- On an input source from a DV tape which is partly recorded over, chapters may not be made properly.

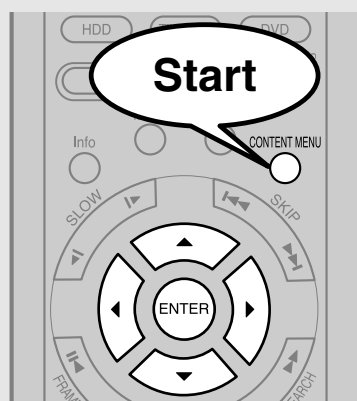
# Deleting recorded contents

## Important note

Any deleted title/chapter (original) cannot be restored. Before deleting, be sure to check contents on the disc.

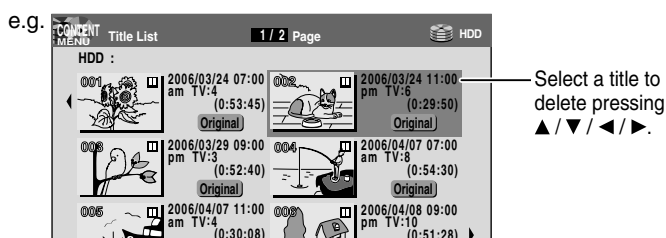
On a finalized DVD-R/RW disc, this feature is not possible.

## To delete a title (chapter)

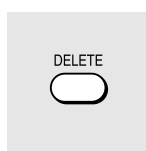


## 1 Press CONTENT MENU, then press ▲/▼/◀/▶ to select a title to delete.

To display chapters, press ★ button.



## 2 Press DELETE.



Alternate method:

Press QUICK MENU button, then press ▲/▼ buttons to select "Title delete" ("Chapter delete") and press ENTER button.

## 3 Read the message and press ◀/▶ to select "Yes," then press ENTER.

## Deleting multiple specified parts

- 1) Press HDD or DVD to select a disc that contains titles or chapters you want to delete.
- 2) Press EDIT MENU.
- 3) Press ▲/▼ to select "Del selected items," then press ENTER.  
"EDIT MENU Del Selected items" appears.
- 4) Select a part (a title or chapter) to delete.  
(To select a part, see ➡ page 93 – 94.)
- 5) Press ▼ repeatedly to select "Start," then press ENTER.  
The recorder begins the deletion process.  
To cancel deleting, press ◀/▶ buttons to select "No", then press ENTER button.

### Notes

- Deleting a title (a chapter) decreases the numbers of the succeeding titles (chapters).
- A chapter for under 5 seconds or shorter may not be deleted. Deleting a short chapter may not change the display of the available disc volume.
- Deleting a playlist title/chapter does not affect the original title/chapter.
- Deleting an original title/chapter affects all the corresponding playlist title/chapters.
- Deleting all chapters in a title erases the title itself.
- Titles and chapters which contain still pictures cannot be deleted.
- On a DVD-R/RW disc, deleting is not possible if the disc is finalized (➡ page 122).
- Chapters in a DVD-R/RW disc cannot be deleted.
- On a DVD-RW disc, only the last title recorded can restore the disc capacity by being deleted.
- On a DVD-R disc, deleting cannot restore the disc capacity.

# Others

## To protect recorded content

You can protect recorded contents of the HDD or a DVD-RAM disc from unexpected deletion. Protection is provided for each title (original).

- 1) Perform steps 1 and 2 in “Playing recorded contents (CONTENT MENU)” (➡ page 60) to select a title.
- 2) Press QUICK MENU button, and press ▲ / ▼ buttons to select “Title information”. Then press ENTER button.
- 3) Press QUICK MENU button, and press ▲ / ▼ buttons to select “Lock” and then press ENTER button.

The mark  appears.

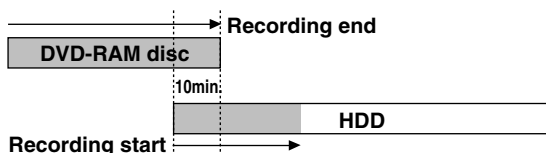
### Notes

- To cancel protection, repeat this procedure.
- Disc initialization erases all titles on a disc even if they are protected.
- Executing “All HDD titles delete” (➡ page 186) erases all titles on the HDD even if they are protected.

## Relay recording HDD DVD-RAM

This function automatically diverts a recording to the HDD if a DVD-RAM disc is near capacity.

When the remaining time of the DVD-RAM disc has reached about 10 minutes, the recorder starts recording the same content on the HDD as well as DVD-RAM. The chapter marks are automatically made at the start and end points of the overlapped recording portion. You can delete the unnecessary overlapped portion afterwards by referring to the chapter marks.



To engage the Relay Recording function, set “Relay recording” to “On” (➡ page 185).

### Notes

- When the capacity of the HDD is not sufficient, the operation is canceled.
- While recording the overlapped portion, you cannot pause the recording.
- While recording the overlapped portion, you cannot play a recorded title on the same disc.
- When another programmed recording is set just after the relay recording, the relay recording stops about 2 minutes before the next programmed recording starts.

## Technical Information

### ● About recording time

The recording time of a typical VCR (Video Cassette Recorder) is determined by the length of a video tape and recording speed (SP, LP, etc.). Video tapes with various recording times are available on the market. On the other hand, the recording time of a DVD-RAM/R/RW depends on the bit rate (Mbps: amount of data transmitted per second), which can be varied in MPEG2 (Moving Picture Experts Group2) compression technology.

As an example, when you pour water into a bucket from a faucet, the faster the water flows, the sooner the bucket is filled with water. On the other hand, the slower the water flows, the more slowly the bucket is filled. A DVD-RAM/R/RW is, so to speak, like a bucket, and the degree you turn the faucet is bit rate, the time required to fill the bucket with water is the recording time available for a disc. The higher you set the bit rate (making much more water flow), the sooner a disc is filled. Consequently, the recording time becomes shorter. The lower you set the bit rate, the longer time it takes to fill a disc.

### ● About picture quality (SP, LP, MN (Manual) mode)

The higher you set the bit rate, the more the volume of information for the picture. The lower the bit rate, the less the volume of picture information. However a high bit rate does not always mean that the picture quality is high. The difference between the 1.4 Mbps and 9.2 Mbps is obvious, but when comparing similar bit rates, the difference may be insignificant. Generally when you set the bit rate low for a longer recording, the data volume shortage will result in a lack of detail information. As a result, the picture quality is decreased (more noticeable with dynamically moving images). For example, square noises (block noise) may occur in a scene with fast action or a scene with light and shadows, such as a water surface.

This recorder has two settings, 2 hour recording at “SP” mode or 4 hour recording at “LP” mode (both assume a blank 4.7 GB DVD-RAM). It is recommended to consider the “SP” mode as a standard mode and use the “LP” mode when you want to record for long time regardless of the picture quality. When you want to record a music program or animation with high picture quality, it is recommended that you select the “MN” mode. If you select more than 6 Mbps, you can usually record with considerably higher picture quality. However the higher you set the bit rate, the shorter the recording time.

- **Dolby D /M1, Dolby D /M2**

Sound recording format onto DVD-RAM discs. When recording, sounds are converted into digital signals and compressed. In playback, they are extracted to the original sound. The standard differentiates Dolby D /M1 and Dolby D /M2 in data volume to use. Dolby D /M1 and Dolby D /M2 are applied the digital recording technology for consumer products of Dolby Laboratories. Dolby Digital 192 kbps is set for Dolby D /M1 and Dolby Digital 384 kbps for Dolby D /M2.

- **L-PCM (Linear PCM)**

Sound recording format, like Dolby Digital. However, sounds are converted into digital signals and recorded as they are without compression. This process requires more data than Dolby Digital.



# Playback

Play your favorite contents.

- **Playing recorded contents  
(CONTENT MENU)**
- **Playing a DVD video disc**
- **Other playback functions**

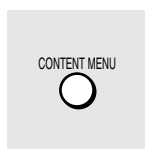
# Playing recorded contents (CONTENT MENU)

Titles and chapters recorded on the HDD or a DVD-RAM/R/RW disc are displayed in thumbnail view, so that you can easily locate a desired one.

You can play recorded TV programs also from TV Guide On Screen. See ➡ page 25.

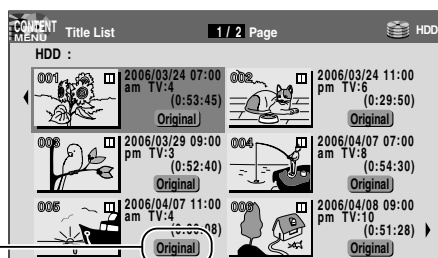


## 1 Press CONTENT MENU.



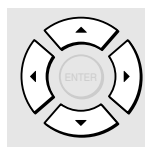
"CONTENT MENU Title List" appears.

e.g.



You can switch between HDD and DVD drives by pressing HDD or DVD button.

## 2 Press ▲/▼/◀/▶ to select a title (chapter).



You can view succeeding or prior pages by pressing PICTURE SEARCH (◀◀/▶▶) button.

To select a chapter, select a title and press ★ button. The Chapter List appears.

By pressing ★ button again, you can return to Title List.

## 3 Press ENTER.



Playback starts from a selected title (chapter).

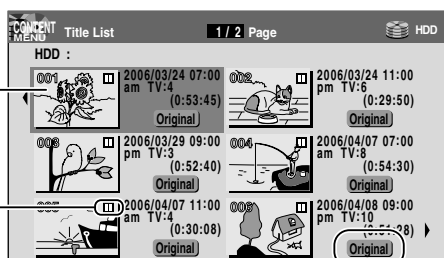
### Notes

- On CONTENT MENU, titles (Original) precede titles (Playlist) in order from the oldest one respectively.
- To turn off CONTENT MENU, press CONTENT MENU button. Absence of operations for longer than about 15 minutes also turns off CONTENT MENU.
- The mark ■ is displayed in every thumbnail when "HDD/RAM title play" (➡ page 183) is set to "Title resume". When set to "Serial playback", it is displayed in a thumbnail last operated.
- You can change a thumbnail picture. See ➡ page 126.
- You cannot display CONTENT MENU for DVD-R/RW discs recorded on other devices.
- For playing a recorded title while recording another, see ➡ page 48.
- A black thumbnail with "Recording" means that the title is being recorded or its recording will start within 15 seconds. This thumbnail cannot start playback.



## ■ Reading CONTENT MENU

Each recorded content is displayed as its thumbnail.



A recorded title is marked with "Original". A fictitious title created by editing is marked with "Playlist".

This shows that the recorder memorizes the location you last stopped playback in each title.  
To use this function, set "HDD/RAM title play" to "Title resume". (➡ page 183)  
You can make the recorder memorize only the very last point, regardless of the number of titles.  
Set "HDD/RAM title play" to "Serial playback". (➡ page 183)

Titles (Original) precede titles (Playlist) in order from the oldest one.

## ■ To stop playback

Press STOP.



## ■ To pause playback (still playback)

Press PAUSE.



To resume normal playback, press PLAY button or PAUSE button.

### Note

- Sound is muted in still mode.

## ■ To skip by 1/20 of whole

During playback, press ◀/▶.

Each time you press the button, you can skip by 1/20 of the current title or track if it is longer than 1 minute.

## ■ To skip the contents in pre-determined increments

During playback, press INSTANT SKIP.

Each time you press the button, you can skip by a specified time.

You can select the interval per press of the button. See "Instant skip interval" (➡ page 182).

## ■ To skip back in pre-determined increments

During playback, press INSTANT REPLAY.

Each time you press the button, you can go back by the specified time to resume playback.

You can select the interval per press of the button. See "Instant replay interval" (➡ page 183).

### Notes

- This operation may not work for some discs.
- Depending on the structure of a disc, some operations may be limited.
- Depending on playback conditions, some operations may not work.

## ■ Erasing content

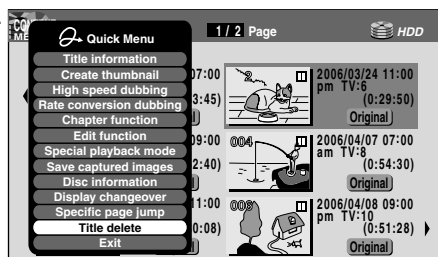
1) On CONTENT MENU, select an unnecessary title (chapter).

2) Press QUICK MENU.

A Quick Menu appears.

3) Press ▲/▼/◀/▶ to select "Title delete".

e.g.



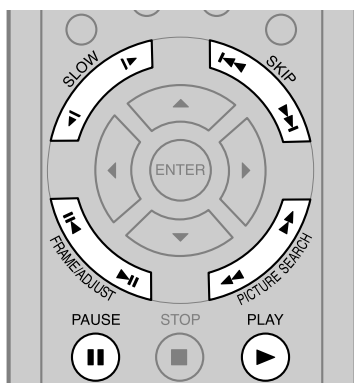
4) Press ENTER.

The confirmation message appears.

5) Press ◀/▶ to select "Yes" or "No" then press ENTER again.

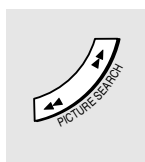
## Playing at various speeds

HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO VCD CD



### ● Playing in fast reverse or fast forward

During normal playback, press **PICTURE SEARCH**.



- ▶▶ : Fast forward playback
- ◀◀ : Fast reverse playback

Each time you press the button, the playback speed changes. During fast forward playback at “▶▶” speed, sound is reproduced. (Not available on VIDEO CD.)

- This function is not available when you play a title recorded on a DVD-RAM disc while recording another.

#### Notes

- The playback speed may vary depending on the disc.
- Depending on the disc or data condition, picture and sound in fast forward playback at “▶▶” speed may be disturbed.

### ● Playing in slow-motion (Not available in CD playback)

Press **SLOW** during playback.



- ▶ : Forward slow-motion
- ◀ : Reverse slow-motion

Each time you press the SLOW button, the slow-motion speed changes.

- To resume normal playback

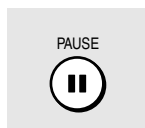
Press **PLAY**.

#### Notes

- Slow-motion does not provide smooth playback.
- When playing a VIDEO CD, reverse slow-motion playback is not available.
- The speed level displayed is approximate.

### ● Playing frame by frame

#### 1) During playback, press **PAUSE**.



A still picture is displayed.

#### 2) Press **FRAME** (◀▶/▶▶).



- ▶▶ : Playback direction
- ◀◀ : Opposite direction

- To resume normal playback

Press **PLAY** or **PAUSE**.

#### Notes

- Sound is muted during frame by frame playback.
- Frame by frame playback cannot provide smooth playback.
- Picture may advance more than 1 frame at a time.
- Depending on scenes, some frames may not be played.
- When playing a VIDEO CD, reverse frame by frame playback is not available.

### ● Skipping to the next/previous chapter or track

Press **SKIP** (◀◀/▶▶) repeatedly until the chapter or track number you want appears.



Playback starts from the selected chapter or track.

- ▶▶ : Playback starts from the beginning of the next chapter or track.
- ◀◀ : Playback starts from the beginning of the current chapter or track. When you press twice, playback starts from the beginning of the previous chapter or track.

#### Notes

- Some titles may not display chapter numbers.
- When playing the HDD or a DVD-RAM disc, you can access chapters only in the current title if “HDD/RAM title play” (▶ page 183) is set to “Title resume”. To access chapters in other titles, set to “Serial playback”.
- When playing a DVD video disc or a DVD-R/RW disc, you can locate chapters only in the current title if “DVD title stop” (▶ page 178) is set to “On”. To access chapters in other titles, set to “Off”. However, in this instance even though you press SKIP button (◀◀) to go back to the previous title, playback will not start from the last chapter of the title but from the first chapter.

### ● Viewing still pictures **DVD-RAM** **DVD-VIDEO** (Playing a disc that contains still pictures)

#### 1) Press **PLAY**.



The first still picture on a disc is displayed.

Some DVD video discs may allow you to change the pictures using the PLAY, ENTER or SKIP button.

#### 2) Press **FRAME** (◀▶/▶▶).



- ▶▶ : Displays the next still picture.
- ◀◀ : Displays the previous still picture.

## ■ Resuming playback from the location last stopped (Title resume)

The recorder memorizes the location you last stopped playback to resume from there.

To use this function, set “HDD/RAM title play” (➡ page 183) to “**Title resume**.” The recorder will memorize the location you last stopped at in each title, so you can resume playback from there. For example, if there are 6 titles, you can start each of them as if you had stored 6 video tapes in the recorder.

- **To return to the beginning of the title**  
During playback, press QUICK MENU button, then press ▲ / ▼ buttons to select “Restart title,” then press ENTER button.
- **To play another title**  
Press CONTENT MENU button to display “CONTENT MENU Title List,” then select a title.

You can make the recorder memorize only the very last point, regardless of the number of titles. Set “HDD/RAM title play” (➡ page 183) to “**Serial playback**.”

- **To return to the beginning of the title**  
Press SKIP (I◀◀) button repeatedly until the beginning of the title appears.
- **To play the other title**  
Press SKIP (I◀◀ / ▶▶I) button repeatedly.

### Notes

- Depending on conditions or contents, playback may not start from the location last stopped at, but instead another location. For example, from the beginning of the disc or title.
- Depending on a disc, there may be a slight difference between the location the recorder memorizes and the actual location where playback starts.
- This function is not available on DVD-R/RW discs.
- The resuming function will not work if the write-protect tab is set to “PROTECT” (➡ page 8).

## ■ Playing the digest (Skip Search)

This feature repeats playback of about 5 seconds and skip of 1 minute from the beginning to the end of a recorded title, so that you can view the digest of it.

- 1) **Perform steps 1 and 2 on ➡ page 60, and select a title that you want to view the digest.**
- 2) **Press QUICK MENU.**  
Quick Menu is displayed.
- 3) **Press ▲ / ▼ to select “Special playback mode”, then press ENTER.**
- 4) **Press ▲ / ▼ to select “Skip search”, then press ENTER.**  
The Skip Search starts.

### Notes

- This feature can be used for only one title (original) recorded on the HDD or a DVD-RAM disc.
- While using this feature, you cannot use speed-related functions such as fast forward or fast reverse.
- If you press ENTER button while using this feature, the normal playback starts.
- To cancel this feature, press STOP button twice.

## ■ Viewing the first scene of a title (Original) (Intro scan)

- 1) **After step 1 on ➡ page 60, press QUICK MENU.**  
Quick Menu appears.
- 2) **Press ▲ / ▼ to select “Special playback mode”, then press ENTER.**
- 3) **Press ▲ / ▼ to select “Intro scan”, then press ENTER.**

The recorder plays the first 5 seconds of each title beginning from title 1.

You can go forward or back by pressing SKIP buttons.

▶▶I : to go to the next title.

I◀◀ : to go back to the current title.

Press twice to go back to the previous title.

- 4) **When you find a desired title, press ENTER.**  
The selected title is played.

### Notes

- To stop Intro Scan, press STOP button twice.
- This feature can be used for only titles (Original) recorded on the HDD or a DVD-RAM disc.

## ■ Playing all titles (original/playlist) in a disc

Set “HDD/RAM title play” (➡ page 183) to “Serial playback”. You can play all titles in the HDD and DVD-RAM disc in the order of the thumbnails on CONTENT MENU, as if they were recorded in one video tape.

### ■ Playing all titles (original) in a disc (Play All ORG Titles)

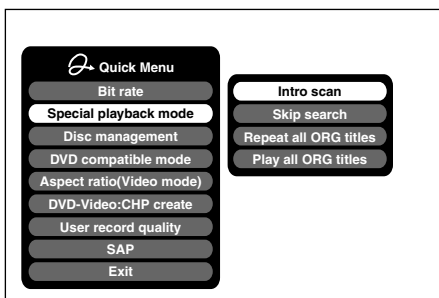
You can play all Original titles in the HDD or a DVD-RAM disc in the order of the thumbnails on CONTENT MENU, as if they were recorded in one video tape.

**1) Press QUICK MENU.**

Quick Menu appears.

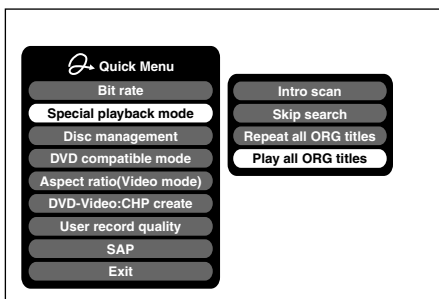
**2) Press ▲ / ▼ to select “Special playback mode”, then press ENTER.**

e.g.



**3) Press ▲ / ▼ to select “Play all ORG titles”, then press ENTER.**

e.g.



Playback starts from the beginning of title 1.

### ■ Checking the background information on a selected title

**1) At step 2 on ➡ page 60, select a title (chapter) then press QUICK MENU.**

Quick Menu appears.

**2) Press ▲ / ▼ to select “Title information”, then press ENTER.**

Detail information of a selected title (chapter) appears. You can switch the chapters on the title by pressing PICTURE SEARCH (◀◀ / ▶▶) buttons.

#### Notes

- From Quick Menu on “CONTENT MENU Title Information”, you can change the details such as names, genres or dates which will help sorting and searching on Library system (➡ page 132). Also you can protect the title from unexpected erasure (➡ page 56).
- To return to the previous menu, press O button.
- To cancel the procedure, press CONTENT MENU button.

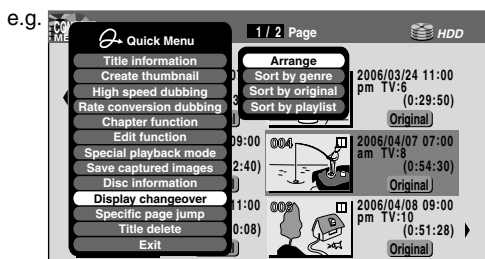
#### Notes

- To stop “Play all ORG titles”, press STOP button twice. (However, do this when you are playing a title recorded in the HDD or a DVD-RAM disc while recording (➡ page 48) will stop the recording.) Alternatively, press QUICK MENU button to display the quick menu, and press ▲ / ▼ buttons to select “Cancel play all ORG titles” and press ENTER button.
- When the last title is complete, All ORG Title Play stops.
- If you select “Repeat all ORG titles” at step 3), “Play all ORG titles” repeats.
- This function is available only for titles recorded on HDD or DVD-RAM discs.

## ■ Changing the order of titles

You can change the order or sort the titles by genres.

- 1) **Press CONTENT MENU.**  
CONTENT MENU appears.
- 2) **Press QUICK MENU.**  
Quick Menu appears.
- 3) **Press ▲ / ▼ to select “Display changeover”, then press ENTER.**



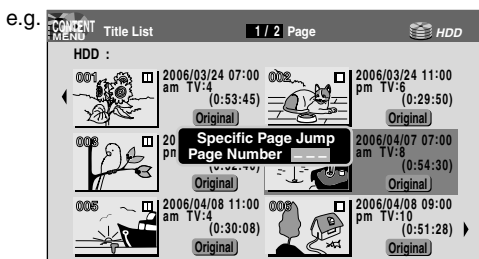
- 4) **Press ▲ / ▼ to select the item, then press ENTER.**
  - **Arrange**  
Titles are rearranged along with the selected order.  
Press ▲ / ▼ buttons to select the order, then press ENTER button.
  - **Sort by genre**  
Titles of the selected genre are sorted.  
Press ▲ / ▼ buttons to select the genre, then press ENTER button.
  - **Sort by original**  
Titles (Original) are sorted.
  - **Sort by playlist**  
Titles (Playlist) are sorted.

### Note

- To cancel, select “Display changeover” then “Cancel Arrange/Narrowing” from Quick Menu.

## ■ Jumping to a specified page

- 1) **Press CONTENT MENU.**  
CONTENT MENU appears.
- 2) **Press QUICK MENU.**  
Quick Menu appears.
- 3) **Press ▲ / ▼ to select “Specific page jump”, then press ENTER.**
- 4) **Enter the page number you want by pressing ADJUST, ▲ / ▼ or the number buttons.**



To clear the number, press CLEAR button.

- 5) **Press ENTER.**  
The specified page appears.

### Notes

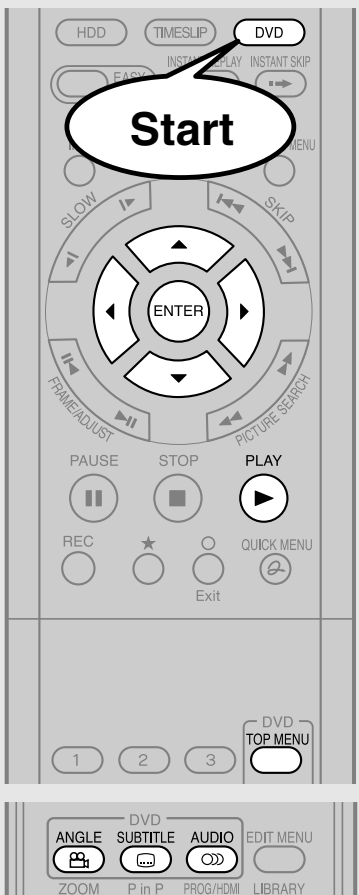
- Some disc's conditions or discs which contain copy once contents may not permit proper playback.
- “Title resume” (⏮ page 183) is not available.

# Playing a DVD video disc

You can also play VIDEO CDs, audio CDs or finalization processed DVD-R discs in the same manner. To play recorded contents, follow the instructions on ➡ page 60.

## ■ Preparation

- Turn on a TV or audio system and select the corresponding input source that the recorder is connected to.
- Load a disc you want to play. (➡ page 20)



### 1 Press DVD.

The DVD indicator on the front panel will illuminate. This indicates that the recorder is ready to play a disc in the disc tray (DVD mode).

DVD

### 2 Press PLAY.

Playback starts.

PLAY  
▶

- Depending on a disc, playback starts automatically by loading the disc.
- The recorder may take a short time to start playback. This occurs because the recorder is reading the data of a disc.

**Note**

- DVD video discs provide high resolution pictures and a lot of information. Because of this, you may notice some fine picture noises on TV screen, which you have never seen with regular broadcast TV program. While the amount of noise depends on the TV you use with the recorder, you should generally reduce the sharpness adjustment on your TV when viewing DVD video discs.

## Locating a title using the top menu DVD-RW DVD-R DVD-VIDEO

Some DVD video discs may include a top menu, on which you can view the structure of contents or select a scene. Most of the top menus automatically appear in certain scenes, and also are displayed on demand. Actual operation of the top menu depends on a disc. This section explains a general example of how to operate a top menu. Also refer to the instructions of the disc itself.

- 1) Press TOP MENU.
- 2) Press ▲/▼/◀/▶ to select the title you want.  
If the titles in the top menu are assigned a number, you can directly locate a specific title by pressing its designated number with the number buttons.
- 3) Press ENTER.

### Notes

- The instructions above describe basic procedures which may vary depending on the contents of a DVD video disc. If different instructions appear on the TV screen, follow those instructions.
- If you display the top menu during playback and press TOP MENU button again without selecting any title, the recorder may resume playback from the point where you first pressed TOP MENU button. (depending on the actual DVD video disc.)
- This method of locating a title is available only on a disc that contains a top menu.
- Instruction notes of discs may refer to the button that displays the top menu as TITLE button.

## ■ Resuming playback from the location last stopped at (Resume Play)

DVD-RW DVD-R DVD-VIDEO VCD CD

You can resume playback from the location where you stopped at.

If you press PLAY button after stopping playback, the playback resumes from the location you have stopped.

If you stop playback by pressing STOP button twice, the resume playback feature will be cancelled.

### Notes

- Resume feature cannot function when:
  - you select a disc menu language (➡ page 176) or change the parental lock setting (➡ page 177).
  - you play a PBC-featured VIDEO CD.
  - you open the disc tray.
- There may be a difference in the location where playback resumes depending on the disc.
- While the recorder retains a location in memory, initial setting changes may function only after the memory is cleared.

## ■ Selecting the sound

If a disc contains several languages, you can select a preferred language from them to hear.

### 1) During playback, press AUDIO.

Each time you press the button, output sound changes.

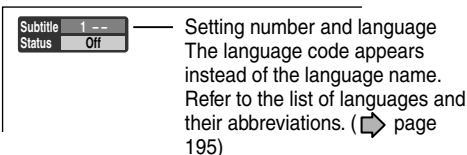
## ■ Selecting Subtitles

You can display subtitles on the TV screen and select a subtitle language from those included on the disc.

### 1) Press SUBTITLE during playback.

The current subtitle setting appears.

e.g.



### 2) Press ▼ to select "Status," then press ADJUST to select "On."

Skip to step 3 if "On" is already displayed.

### 3) Press ▲ to select "Subtitle," then press ADJUST to select a language.

The subtitles of recorded languages appear.

### • To turn the subtitles on or off

At step 2, select "Off" by pressing ADJUST button.

### Notes

- Some DVD video discs are set to display subtitles automatically.
- Depending on the scene, subtitles may not appear immediately after you set the subtitle function to on.
- Some DVD video discs will allow you to change subtitle languages and turn subtitles on or off only via the disc menu.

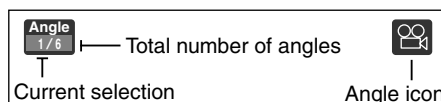
## ■ Selecting the camera angle

If the scene was recorded with multiple angles, you can easily change the camera angle of the scene you are watching.

### 1) Press ANGLE while playing a scene recorded with multiple angles.

While playing a scene recorded with multiple angles, the angle icon appears on the TV screen and on the front panel. Press ANGLE button while the angle icon is displayed.

e.g.



### 2) Press ADJUST while the angle number is displayed on the TV screen.

You can also select the camera angle by pressing ANGLE button several times.

- The angle icon disappears after about 3 seconds if no further selections are made.

### • To turn off the angle icon

Set "On screen display" in the setup menu to "Off" (➡ page 181).

Most of the on-screen display including the angle icon will not appear.

While the angle icon is flashing on the front panel display, you can change the camera angle.

### Notes

- You can also change the camera angle during still playback. The camera angle changes to the new setting when you resume normal playback.
- If you pause a picture immediately after changing a camera angle, the resumed playback picture may not display the new camera angle.
- Depending on a disc, the camera angle may not change even though the angle number changes.

# Other playback functions

## Pausing a TV broadcast to resume later (Pause TV) HDD

This function enables you to pause a TV broadcast and resume viewing at a later, more convenient time, by storing the TV broadcast temporarily on the HDD.



### 1 While viewing a TV broadcast via this recorder or immediately before it starts, press **TIMESLIP**.

TIMESLIP

When pause TV mode is ready, playback starts automatically.  
The recorder begins to store the broadcast on the HDD the moment you press TIMESLIP button.

### 2 Locate a scene you want by the following methods.

#### **Fast-forward/fast-reverse:**

Press PICTURE SEARCH button.

#### **Forward/reverse Slow-motion:**

Press SLOW button.

#### **Forward/reverse frame by frame play:**

First press PAUSE button then press FRAME button.

- To resume normal playback, press PLAY button.
- You can play in fast-forward to within 10 seconds prior to the current broadcast.

### 3 Press **TIMESLIP** to exit this mode.

TIMESLIP

The recorder stops storing the broadcast on the HDD.  
A message appears and asks you whether you will save the stored data or erase it.  
Press ◀/ ▶ buttons to select, then press ENTER button.

#### Notes

- This function is not available during recording.
- Pause TV recording stops when the HDD is filled up. It will not begin if the HDD has no remaining space.
- While using this pause TV recording, you cannot program a recording.
- Playback may jump a few seconds back or pause depending on the disc or data condition.



## Playing a TV program currently being recorded (Chase Play)

HDD DVD-RAM

You can begin playback from the beginning of a program currently being recorded.

You will find this function of great advantage on long programs, as you do not have to wait for the end of recording to begin playback.



### 1 While recording a TV program on the HDD or a DVD-RAM disc, press TIMESLIP.

TIMESLIP

The recorder displays a TV program as it is being recorded.

### 2 Go back to the beginning of the TV program using SKIP.



When you go back to the beginning, playback starts automatically.

You can confirm how far you are from the current broadcast by pressing TIME BAR button.

### 3 Locate a scene you want through the following operations if necessary.

#### Fast-forward/fast-reverse:

Press PICTURE SEARCH button.

#### Forward/reverse Slow-motion:

Press SLOW buttons.

#### Forward/reverse frame by frame play:

First press PAUSE button then press FRAME button.

- To resume normal playback, press PLAY button.
- You can play in fast-forward to within 10 seconds prior to the current broadcast.

### 4 Press TIMESLIP to exit.

TIMESLIP

The current broadcast returns.

#### Notes

- Time slip recording/playback stops when the capacity of a disc is filled up. You can play a location where the recorder stopped the recording. The time slip recording/playback cannot begin if the disc has no remaining space.
- The playback picture may appear after a delay of several seconds.
- The playback location will never follow up to the recorded location in the program. It will always trail the recorded location by a few seconds.
- While using time slip recording/playback, you cannot program recording.
- While TIMESLIP indicator is on, you cannot change the setting of the feature, which turns off the recorder after a programmed operation has finished.
- Even while "Auto power off" is selected, the recorder does not turn off if the recording end time comes during playback of a program being recorded.
- This function is not available on a DVD-RAM disc when "Relay recording" (▶ page 185) is set to "On."
- Playback may jump a few seconds back or pause depending on the disc or data condition.



## Zooming a picture

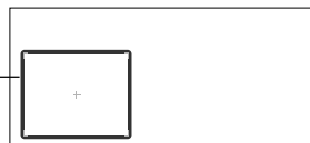
HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO VCD

You can magnify areas within a picture.

### 1) Press ZOOM.

A zoom scope appears.

Zoom scope



### 2) Select a zoom point and magnification level.

★ :

Raises the magnification level.

○ :

Lowers the magnification level.

▲ / ▼ / ◀ / ▶ :

Moves the zoom point. (only after the image has been magnified)

CLEAR :

Returns the zoom point to the center of the picture.

### Notes

- Some discs may not respond to zoom feature.
- During some scenes, the buttons may not work as described.
- The zoom feature is canceled when the disc menu is operated.
- The magnification level varies depending on the picture size you select (➡ page 48, in "INSTALLATION GUIDE").
- The zoom feature is not available while displaying on the screen menu.
- The zoom feature is canceled when you stop playback or start playback.

### ■ To cancel the zoom

Press ZOOM.

## Watching a TV broadcast in the sub window (P in P playback)

HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO VCD

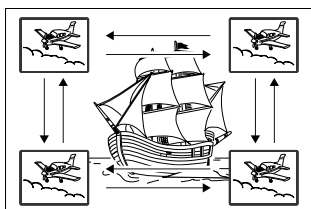
During playback, you can watch a TV broadcast in the sub window. (P in P : Picture in Picture)

### 1) During playback, press P in P.

A sub window (program on the air or on the recording) appears.

### 2) Press ▲ / ▼ / ◀ / ▶ to select the position of the sub window.

You can shift the sub window in following 4 directions.

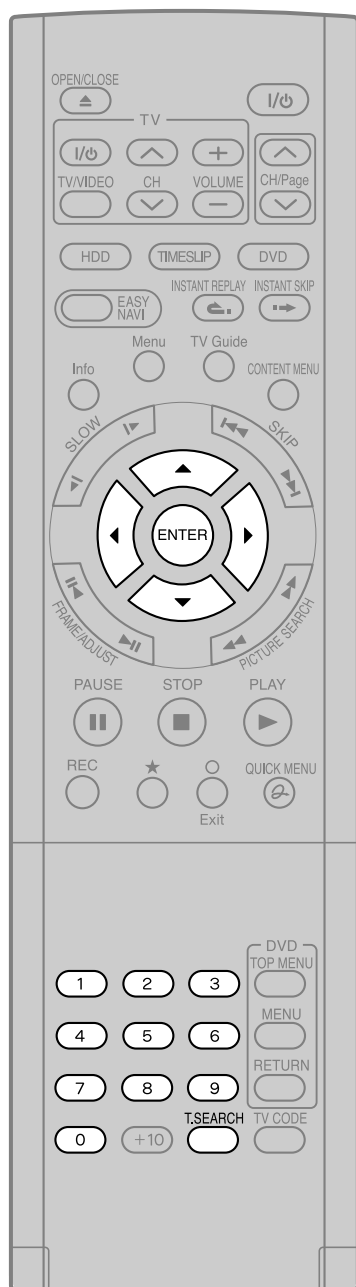


### Notes

- You can change the channel of the sub window by pressing CH ▼ / ▲ button.
- The P in P function is available only during playback.
- You cannot swap the playback picture with the picture within the sub window, or change the audio settings.
- Press P in P button during "Chase Play" or "Pause TV", the actual broadcast appears on the sub window in real time.
- If this function is stopped after shifting the sub window, before you press P in P button again, the sub window will appear in the last position you set.

↑ / ↓ / ◀ / ▶ is the moving range.

To turn off the sub window, press P in P button.



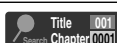
## Locating by entering the number of a desired section

HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO VCD CD

Normally titles, chapters, and tracks are numbered. By entering these numbers, you can access a desired section.

### 1) Press T.SEARCH.

e.g.



If you are using a VIDEO CD/audio CD, skip step 2.

### 2) Press ▲ / ▼ to select a section (title or chapter) you want to locate.

e.g.



When you want to locate a chapter.

### 3) Press the number buttons to enter a number of the section.

e.g. To enter 25, press “2”, then press “5”.

### 4) Press ENTER.

#### Notes

- Pressing CLEAR button resets the numbers. To clear the display, press T.SEARCH button several times (depending on a disc).
- This method of locating a title is available only on a disc that contains title numbers.
- If a title is erased, the numbers of the following titles decrease respectively.
- When you record a new title (Original) on the HDD or a DVD-RAM disc, it is added prior to current titles (Playlist), and each following title (Playlist) reference number will advance by a factor of 1.

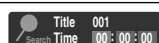
## Locating a specific point by entering its elapsed time (Time Search)

HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO VCD CD

### 1) Press T.SEARCH.

You may have to press repeatedly, depending on a disc. Press the button until the following display appears.

e.g.



### 2) Press the number buttons and ◀ / ▶ to enter the desired time location on the disc.

e.g. To enter 1 hour, 25 minutes, and 30 seconds

“0” → “1” → “▶” → “2” → “5” → “▶” → “3” → “0”  
hour minute second

### 3) Press ENTER.

#### Notes

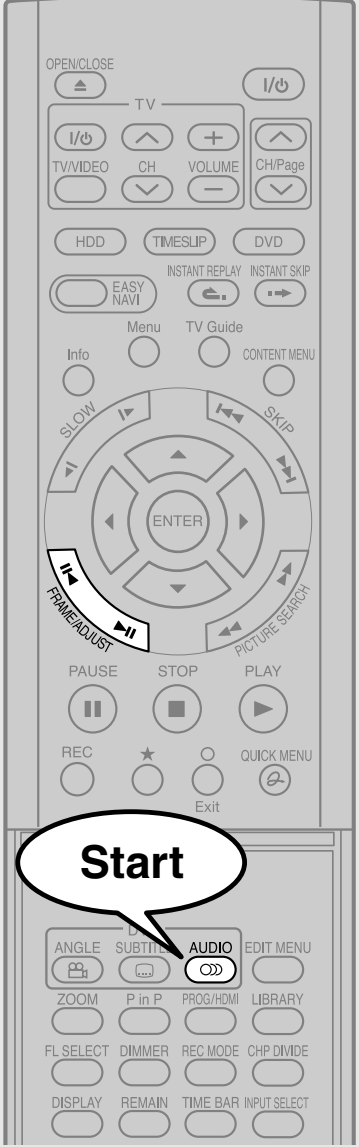
- Some discs may not respond to this process.
- Some scenes may not be accessed precisely as you specified.
- This method for accessing specific locations is available only within the current title of the HDD or a DVD-RAM/R/RW/DVD video disc or within a current track of a VIDEO CD/audio CD.
- Pressing CLEAR button resets the numbers.

Other playback functions (Continued)

Selecting the sound

HDDDVD-RAMDVD-RWDVD-RDVD-VIDEOVCD

You can select a preferred language and a sound format.



1

**Press AUDIO during playback or while receiving a broadcast.**

AUDIO

The current audio setting appears.

The language code appears instead of the language name. Refer to the list of languages and their abbreviations. (➡ page 195)

2

**Press ADJUST while the audio setting is displayed on the TV screen.**

FRAME ADJUST

Variation of channels depends on the disc or the type of TV broadcast.

- **HDD DVD-RAM**, TV channel signals

Stereo sound

→ “Stereo” (left channel and right channel)

→ “Stereo L” (left channel)

→ “Stereo R” (right channel)

(→ Back to “Stereo”)

SAP sound

“Main” → “SAP” → “Main + SAP” (→ Back to “Main”)

- **DVD-R DVD-VIDEO**

Language name / sound recording system / No. of channels

e.g.

Sound

1 English

2ch

Output

PCM

- **VCD**

“Stereo” → “Stereo L” → “Stereo R” (→ Back to “Stereo”)

The display turns off if you do not operate for more than 3 seconds.

If you press ▲ / ▼ buttons to select “Output,” you can select the audio output setting (➡ page 180) by using ADJUST buttons.

■ MTS Broadcast Compatibility

This recorder can receive or record MTS (Multichannel TV sound) broadcast.  
By connecting the recorder to your stereo system or stereo TV, you will try the SAP or stereo sound.

**SAP (Second Audio Program broadcast)**

A separate audio program, usually broadcast in a second language with the main language.

**Sounds in playback**

You can play SAP and/or stereo broadcasts with this recorder. Refer to steps 1 and 2 to select a desired audio.

Desired sound	Sound output
SAP sound	SAP
Stereo sound	Stereo Sound

## Notes

- Some discs allow you to change audio selections only via the disc menu. If this is the case, press MENU button and choose the appropriate language from the selections on the disc menu.
- When you turn on the recorder or replace a disc, the recorder returns to the initial default setting. (➡ page 176)  
Depending on a disc, a specific type of audio the disc has is output.
- Immediately after you have switched sounds, there may be a temporary discrepancy between the display and actual sound.
- The BITSTREAM/PCM jack may not output SAP sound you select. In this instance, set "Audio out select" to "PCM". (➡ page 180)
- You cannot change SAP sound if recorded with "DVD compatible mode" (➡ page 184) set to "Main". Even when "DVD compatible mode" (➡ page 184) is set to "Off," the recorder regards it as "Main" when recording to a DVD-R/RW disc.

## Recorded sounds

According to your setting of "SAP" on the setup menu screen, (➡ page 181), the sound is recorded onto different channels of the disc below. Set "SAP" to "On" or "Off" appropriately.

Setting on the setup screen		Type of receiving broadcast	Contents of recorded sound		Type of record
DVD Compatible Mode	SAP		Lch	Rch	
Off	Off	Stereo + SAP	L	R	Stereo
		Mono + SAP	Mono	Mono	Stereo
		Stereo	L	R	Stereo
		Mono	Mono	Mono	Stereo
	On	Stereo + SAP	L + R	SAP	Dual Mono*
		Mono + SAP	Mono	SAP	Dual Mono*
		Stereo	L	R	Stereo
		Mono	Mono	Mono	Stereo
Main	Off	Stereo + SAP	L	R	Stereo
		Mono + SAP	Mono	Mono	Stereo
		Stereo	L	R	Stereo
		Mono	Mono	Mono	Stereo
	On	Stereo + SAP	L + R	L + R	Stereo
		Mono + SAP	Mono	Mono	Stereo
		Stereo	L	R	Stereo
		Mono	Mono	Mono	Stereo
SAP	Off	Stereo + SAP	L	R	Stereo
		Mono + SAP	Mono	Mono	Stereo
		Stereo	L	R	Stereo
		Mono	Mono	Mono	Stereo
	On	Stereo + SAP	SAP	SAP	Stereo
		Mono + SAP	SAP	SAP	Stereo
		Stereo	L	R	Stereo
		Mono	Mono	Mono	Stereo


\* This will be "Stereo" when a recording is made with "L-PCM" selected.

## Viewing JPEG files


You can play JPEG files that have been recorded on a CD-R or CD-ROM on the recorder.

### ■ Preparations

- Prepare a compatible disc (➡ page 75) that contains JPEG files you want to view.
- Set "Priority contents" (➡ page 183) to "Photo".
- Make your TV shape conform to the 4:3 picture size. Only 4:3 pictures can be played regardless of the function settings via the on-screen displays of the recorder (➡ page 48, "INSTALLATION GUIDE"). If the TV is adjusted to other sizes, e.g. "WIDE," images will appear to be horizontally expanded. For details, refer to the owner's manual of your TV.



**1 Press DVD.**




---

**2 Load a CD that contains JPEG files.**

Each photo appears for about 3 seconds (slide show).

If a slide show does not start, press PLAY button.

Depending on the disc, "CONTENT MENU Picture List" appears. See "On "CONTENT MENU Picture List"" (➡ page 75) to operate.



### Notes

- Some files may not display their own entire images depending on the size.
- JPEG picture playback is not available during recording on the HDD.
- Operation to JPEG file will be disabled at about 2 minutes before a programmed recording starts.

### ■ To stop playback (slide show)

**Press STOP.**

If you press PLAY button after pressing STOP button, playback will start from the photo you stopped at.

### ■ To pause playback (slide show)

**Press PAUSE.**

To resume, press PAUSE button again or press PLAY button.

### ■ To skip photos

**During playback, press SKIP button repeatedly.**

▶▶: To skip forward.

◀◀: To skip backward.

### ■ To rotate a picture

**Press ANGLE repeatedly.**

Each time you press the button, the picture rotates by 90° degree.

### Note

- The rotated image is displayed after its original posture appears momentarily.

### ■ To magnify a picture

Follow the procedure on ➡ page 70.

### Notes

- The magnified image is displayed after its original posture appears momentarily.
- For small pictures, the reduction level may be limited.

## ■ Viewing a specified photo (single view)

Full screen still view.

2 ways are available:

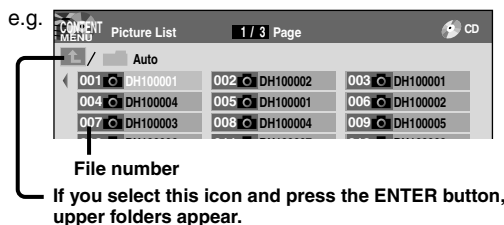
### ● On “CONTENT MENU Picture List”

#### 1) Press CONTENT MENU.

“CONTENT MENU Picture List” appears.

Depending on the disc, the recorder creates either temporary folder, “Auto” or “All”.

“Auto”: For CD of which compatibility confirmed by TOSHIBA. Only playable files are listed.



“All”: For CD other than above. All files are listed.



- Some CDs may not comply with the above.

#### 2) Press ▲/▼/◀/▶ to select a folder or photo.

Pressing PICTURE SEARCH (◀▶) button turns the pages.

If you press ★ button, the list changes to thumbnail view (“CONTENT MENU Pictures”).



Pressing ANGLE button rotates the picture. The rotation of pictures is kept until the CD is ejected.

To return to the previous list, press ★ button again.

#### 3) Press ENTER.

If you select a folder at step 2), repeat steps 2) and 3) until your favorite file appears.

The selected photo appears in full screen.

### Notes

- “CONTENT MENU Picture List” cannot show all the files in a disc, but only ones regarded as objects of regular play of the disc.
- The larger the file size is, the longer the thumbnail takes time to appear.
- Letters of a file/folder name overflowing the given space are not displayed.

### ● Direct input of a photo number

#### 1) Press T.SEARCH.

An input window appears.



#### 2) Input a photo number using the number buttons or ADJUST.

#### 3) Press ENTER.

The selected photo appears in full screen.

### ■ To change the playback order

#### 1) Press QUICK MENU.

#### 2) Press ▲/▼ to select an item, then press ENTER.

To shift the cursor, press ▲/▼ buttons.

- Reverse** : To reverse the order.
- Repeat** : To repeat the current folder.

#### 3) Press ENTER.

Playback in the selected mode starts.

### ● JPEG files compatibility

Discs whose compatibility with this recorder has been confirmed by TOSHIBA are as follows.

CANON QuickCD  
FUJICOLOR CD  
Kodak Picture CD  
NORITSU QSS CD

JPEG disc compatibility with this recorder is limited as follows:

- Playable discs:
  - CD-ROM, CD-R
  - CD-RW is not recommendable.
- CD physical format:
  - Mode 1, Mode 2 XA Form 1
- File system:
  - ISO9660 Level 1, 2 or Joliet
- File name:
  - A file name should be in alphabet and numerals only, and must incorporate “JPG” extension.
  - e.g. “\*\*\*\*\*.JPG”
- Total number of folders:
  - Less than 256
- Total number of files:
  - Less than 1000

Some files may not display their own entire image depending on the size.

Some discs may not permit this operation. Especially, the following conditions of included files will increase the disc's disability.


1. Pixels over 5000 x 5000 in height and/or width
2. File format except Exif

## Playing MP3/WMA files

You can play MP3/WMA files that have been recorded on a CD-R or CD-ROM on this recorder.

### ■ Preparations

- Make sure that a disc you want to play is compatible with this recorder. See ➡ page 77.
- Set “Priority contents” (➡ page 183) to “Audio”.



# 1

## Press DVD.

DVD

---

# 2

## Load a CD that contains MP3/WMA files.

Playback starts from the first track of a current folder.

OPEN/CLOSE  
▲

### Notes

- WMA tracks copy-protected cannot be played.
- The DIGITAL AUDIO OUT BITSTREAM/PCM jack outputs MP3/WMA sounds in the linear PCM format regardless of the current “Audio out select” (➡ page 180) selection.
- You cannot change the playback speed of MP3/WMA playback.

### ■ To stop playback

**Press STOP.**

If you press PLAY button after pressing STOP button, playback will start from the beginning of the track.

### ■ To pause playback

**Press PAUSE.**

To resume, press PAUSE button again or press PLAY button.

### ■ To skip tracks

During playback, press SKIP repeatedly.

▶▶ : To skip forward.

◀◀ : To skip backward.

### ■ Selecting a track in the disc

2 ways are available:

### On “CONTENT MENU Audio List”

#### 1) Press CONTENT MENU button.

“CONTENT MENU Audio List” appears.

e.g.

CONTENT MENU Audio List
1 / 1 Page
CD

MP3

001 MP3_0001	002 MP3_0002	003 MP3_0003
004 MP3_0004	005 MP3_0005	006 MP3_0006
007 MP3_0007	008 MP3_0008	009 MP3_0009

File number

If you select this icon and press ENTER button, upper folders appear.

e.g.

CONTENT MENU Audio List
1 / 1 Page
CD

JPG\_MP3

MP3

MP3a

MP3b

MP3c	001 MP3_0001	002 MP3_0002
003 MP3_0003	004 MP3_0004	

Disc name

The recorder creates temporary folder “All”, which contains all playable files.



## 2) Press ▲/▼/◀/▶ to select a track or folder.

Pressing PICTURE SEARCH (◀◀/▶▶) button turns the pages.

## 3) Press ENTER.

If you select a folder at step 2), repeat steps 2) and 3) until your favorite file appears.

### Notes

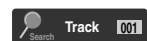
- "CONTENT MENU Audio List" cannot show all the tracks in a disc, but only ones regarded as objects of proper play of the disc.
- Letters of a file/folder name overflowing the given space are not displayed.

### Direct input of a track number

#### 1) Press T.SEARCH.

An input window appears.

e.g.



#### 2) Input a track number using the number buttons or ADJUST button.

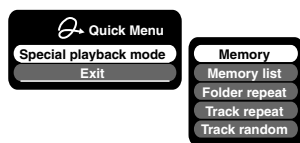
#### 3) Press ENTER.

### ■ To change the playback order

#### 1) Press QUICK MENU.

#### 2) Press ▲/▼ to select "Special playback mode", then press ENTER.

e.g.



#### 3) Press ▲/▼ to select an item, then press ENTER.

**Memory list** : To play favorite tracks only in a favorite order.

Input a track number by using the number buttons or ADJUST button.

To shift the cursor, press ▲/▼ buttons.

**Folder repeat** : To repeat the current folder.

**Track repeat** : To repeat the current file.

**Track random** : To play files in the current folder in a random order.

### Note

- To cancel these modes, stop the playback or select the cancel command from Quick Menu.

## ● Playable files

MP3/WMA disc compatibility with this recorder is limited as follows:

- Playable discs:
  - CD-ROM, CD-R
  - CD-RW is not recommendable.
- Sampling Frequency / Bitrate:
  - WMA: 32 kHz / 48 kbps (CBR), VBR 44.1 kHz / 48-192 kbps (CBR), VBR 48 kHz / 128-192 kbps (CBR), VBR
  - MP3: 8 kHz, 11.025 kHz, 12kHz, 16 kHz, 22.05 kHz, 24 kHz / 8-160 kbps (CBR), VBR 32 kHz, 44.1 kHz, 48 kHz / 32-320 kbps (CBR), VBR
- CD physical format:
  - Mode 1, Mode 2 XA Form 1
- File system:
  - ISO9660 Level 1, 2 or Joliet
- File name:
  - A file name should be in alphabet and numerals only, and must incorporate "MP3" or "WMA" extension.
  - e.g. "\*\*\*\*\*.MP3", "\*\*\*\*\*.WMA"
- Total number of folders:
  - Less than 256
- Total number of files:
  - Less than 1000
- WMA codec version:
  - V7, V8, V9

\* This recorder supports ID3v2 (ID3 Tag Version 2) of MP3, to display text data such as names of title and artist. Some characters may be displayed properly.

This HDD/DVD Recorder requires discs/recordings to meet certain technical standards in order to achieve optimal playback quality. There are many different types of recordable disc formats (including CD-R containing MP3/WMA files). Not all recordable discs will operate or produce optimal playback quality. The technical criteria set forth in this owner's manual are meant only as a guide. Use of CD-RW for MP3 files is not recommended.

Please be advised that you must obtain permission from the applicable copyright owners to download copyrighted content, including music files, in any format, including the MP3 and WMA formats, prior to the downloading thereof. Toshiba has no right to grant and does not grant permission to download any copyrighted content.

Microsoft, Windows Media, and the Windows Logo are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

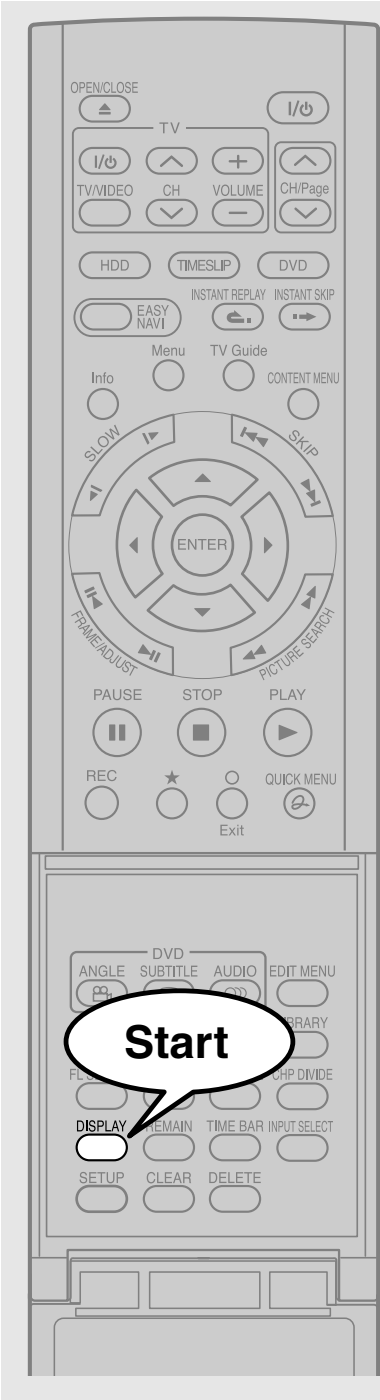


Checking the current status and settings

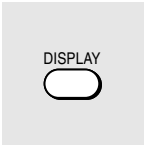
HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO VCD CD

You can confirm operational status and setting details.

● Operational status and setting details

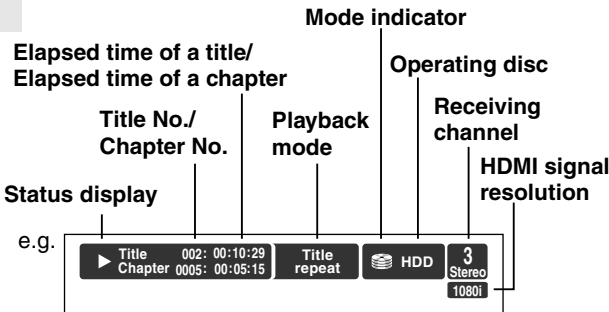


1 Press DISPLAY.

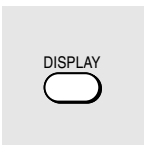


The following on-screen display appears. (The actual display varies depending on the disc.)

e.g. while playing the HDD

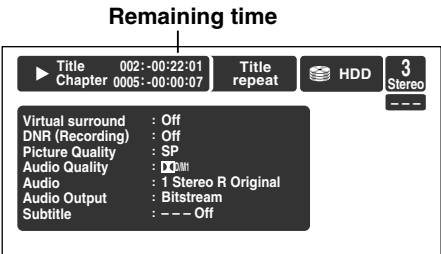


2 Press DISPLAY again.

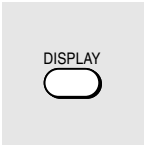


An expanded display appears. (Actual display varies depending on the disc.)

e.g.

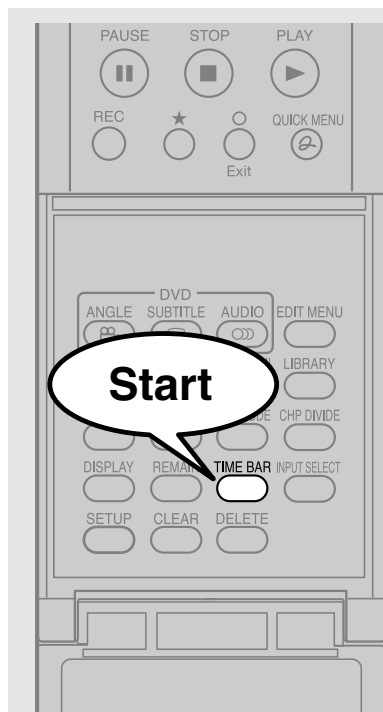


3 Press DISPLAY again to turn the display off.



## ● Using the time bar

The time bar shows the current progress in playback or recording.

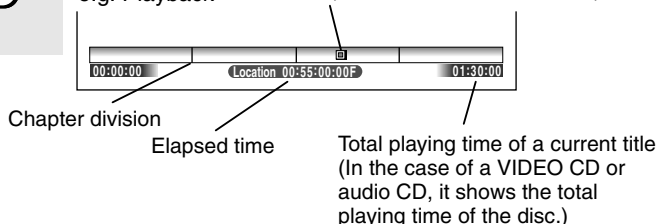


### 1 During playback or recording, press TIME BAR.

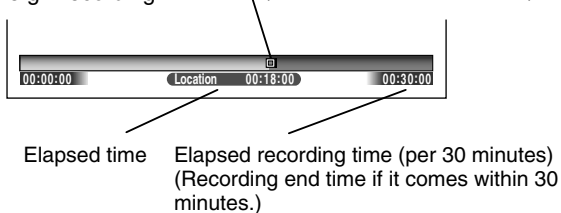
The time bar appears. (The actual display varies depending on the disc.)

TIME BAR

e.g. Playback Locator (Shows the current location.)



e.g. Recording Locator (Shows the current location.)



#### Note

- Time display is an approximation.

#### ■ Changing the location of the time bar

While the time bar is displayed, press ▲ / ▼.  
The time bar shifts up and down.

#### ■ Turning off the time bar

Press TIME BAR.

## Functions in Quick Menu

Besides these examples, various other ones are introduced on respective pages for your convenience. See ➡ page 30 on how to operate Quick Menu.

### ■ To play repeatedly (Repeat playback)

HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO VCD CD

You can repeat a desired section.

- 1) During playback, press **QUICK MENU**.
- 2) Press **▲ / ▼** to select “Special playback mode”, then press **ENTER**.

#### Special playback mode

The sub menu appears. Select the next item by pressing **▲ / ▼** buttons and **ENTER** button.

#### Repeat all ORG titles

To repeat all original titles in a disc.

#### Title repeat

To repeat the same title.

#### Chapter repeat

To repeat the same chapter.

#### A-B repeat

You can designate a portion in a title or track to repeat continuously.

If you select “A-B repeat” and press **ENTER** button, the following display appears. Perform steps 1 and 2 below.

e.g.



To cancel the procedure, press **O** button.

- 1) Press **ENTER** at the beginning of the segment (point A) you want to repeat.

The location of point A is memorized.  
The display changes to “Set B”.

- 2) Press **ENTER** at the end of the segment (point B).

The location of point B is memorized, and repeat playback begins between point A and B.

#### Track repeat

To repeat the same track.

#### Disc repeat

To repeat the entire disc.

#### Repeat all PL titles

To repeat all playlist titles in a disc.

#### Cancel repeat

(in Repeat playback mode)

To resume normal playback.

Playback of the HDD or a DVD-RAM disc stops.

#### Notes

- Some discs may not permit repeat operation.
- You cannot use the repeat playback function in conjunction with the random playback function.
- If you press **STOP** button during repeat playback, this operation is canceled.
- While you are performing repeat playback on the HDD or a DVD-RAM disc, other operations (➡ page 62) except stopping this operation are not available.

### ■ To play in random order (Random play)

DVD-RW DVD-R DVD-VIDEO VCD CD

You can play sections in random order.

- 1) Press **QUICK MENU**.
- 2) Press **▲ / ▼** to select “Special playback mode”, then press **ENTER**.

#### Special playback mode

The sub menu appears. Select the next item by pressing **▲ / ▼** buttons and **ENTER** button.

#### Title random

Plays all titles in a loaded disc in random order.  
Each title is played beginning from chapter 1.

#### Chapter random

Plays all chapters in a current title in random order.

#### Track random

Plays all tracks on a loaded disc in random order.

**Cancel random**

(in Random play mode)

Resumes normal playback.

**Notes**

- Some discs may not permit random playback operation.
- You cannot use the random playback function in conjunction with the memory playback function.
- You cannot use the random playback function in conjunction with the repeat playback function.
- Pressing STOP button during operation cancels random playback.

**■ To play in favorite order (Memory playback)**

DVD-RW | DVD-R | DVD-VIDEO | VCD | CD

You can select 30 titles, chapters, or tracks and play them in favorite order.

(To play contents in the HDD or a DVD-RAM disc in favorite order, make a playlist. For details, see "Editing" on ➡ page 84.)

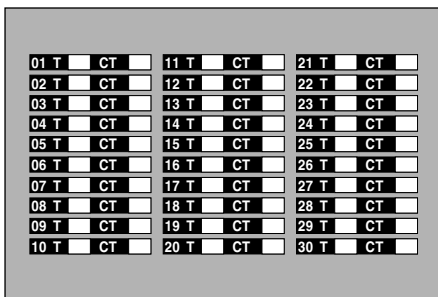
**1) Press QUICK MENU.****2) Press ▲ / ▼ to select "Special playback mode", then press ENTER.****Special playback mode**

The sub menu appears. Select the next item by pressing ▲ / ▼ buttons and ENTER button.

**Memory list**

If you select this and press ENTER button, the following display appears. Perform the steps below.

e.g.

**1) Input numbers of titles, chapters, or tracks by using the number buttons, in favorite order.**

Input each 3-digit number.

To input a 1- or 2-digit number, first input 0.

(e.g. "0", "0", "3".)

To cancel the numbers, press CLEAR button.

To input a chapter number, press ◀ / ▶ buttons to shift the cursor.

**2) Press ▲ / ▼ to select the next box, then perform step 1).**

To select another chapter in the same title, you do not need to select the title number.

Repeat these steps if necessary.

You can program up to 30 selections into memory.

**3) Press ENTER.**

Memory playback starts.

**Memory**

(in normal playback mode)

To display an entry box for one program selection.

**Memory release**

(in memory playback mode)

To resume normal playback.

**Memory repeat**

(in memory playback mode)

To repeat a current memory playback.

**Notes**

- Some discs may not permit memory playback operation.
- Inputting numbers of titles, chapters or tracks that a disc does not contain will result in error.
- You cannot program/change selections during memory playback. To change selections, cancel memory playback by pressing STOP button.
- When you disconnect the power cord, the selected memory is erased.
- You can exit the memory playback display by pressing O button.

**■ To display the current bit rate**

HDD | DVD-RAM | DVD-RW | DVD-R | DVD-VIDEO

**1) During playback, press QUICK MENU.****2) Press ▲ / ▼ to select "Bit rate", then press ENTER.****Bit rate****Note**

- To turn off the bit rate display, select this item again.

**■ To check information on a title**

HDD | DVD-RAM | DVD-RW | DVD-R

**1) During playback, press QUICK MENU.****2) Press ▲ / ▼ to select "Title information", then press ENTER.****Title information****■ To exit Quick Menu**

HDD | DVD-RAM | DVD-RW | DVD-R | DVD-VIDEO | VCD | CD

Press QUICK MENU again.

or

Press ▲ / ▼ to select "Exit", then press ENTER.

**Exit**



# Editing

You can create your own movie from your assembled scenes. Save your favorite videos in DVD discs.

- **Creating your own title**
- **Creating a DVD-Video using DVD-R/RW**
- **DVD-Video finalizing process**
- **Other editing functions**

# Creating your own title

You can edit recorded contents and create your own library.

## Note on deleting unnecessary scenes

It is not recommended that you delete many chapters from titles recorded on the HDD to remove unnecessary parts of the titles and copy those contents on a DVD-RAM disc. The reason is that discontinuous space inside the HDD expands and recorded contents are stored in gaps between used locations. Operating this repeatedly makes a recording area inside the HDD broken down into small and complicated spaces. (It is called fragmentation.) Even normal operations may get slow. Moreover, available space may not be restored by deleting or the HDD may have protection disabling playback or recording.

When you want to delete unnecessary parts from titles, collect necessary parts of chapters to make a playlist. Then copy the playlist and delete the original title or the playlist. For example, make a playlist and copy it to a DVD-RAM. Then delete original titles on the HDD. It can save time and effort and retain continuity in the HDD space. However, when moving a copy once program from the HDD to a DVD-RAM disc, delete unnecessary chapters from original titles. For details (➡ page 98).

Running "All HDD titles delete" regularly prevents fragmentation from occurring.

In addition, if you select and run "HDD format", all data on the HDD will be erased. Copy TV programs you want to save recorded on the HDD from the HDD to a DVD-RAM or DVD-R/RW disc.

When it comes to library data, back it up to a DVD-RAM disc before initializing the HDD. Then rewrite the data on the HDD.

## Editing procedure

**1: Changing a name of a recorded title** (➡ page 86)

**2: Dividing a recorded title into several chapters** (➡ page 87)

**3: Collecting necessary chapters** (➡ page 92)

**4: Dubbing to save** (➡ page 97)

To save in DVD-R/RW for distribution, see ➡ page 112.

### ● Other editing functions

**Changing the picture on CONTENT MENU** (➡ page 126)

**Combining two titles (Original) into one** (➡ page 128)



## Basic flow

### ● Recording a TV program

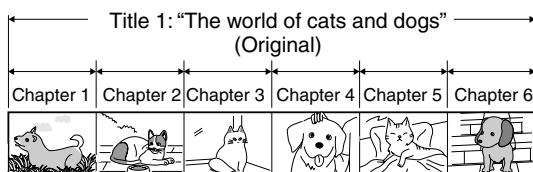
Record a TV program and it becomes an original title.



e.g.  
Title: The world of cats and dogs.

### ● Chapter editing

Divide the original title into chapters.



Divide chapters and create divisions of chapter

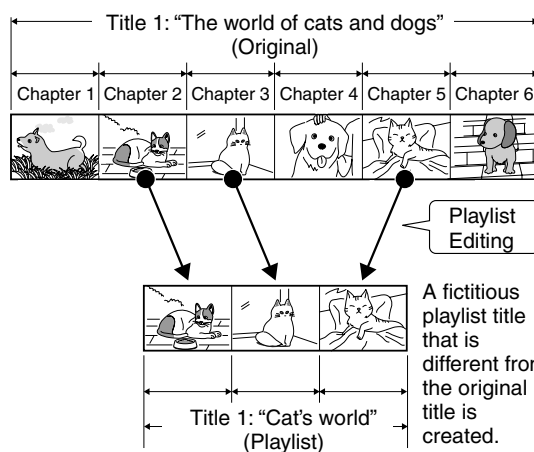
- You can play desired scenes from the top by "Chapter Divide".
- Divide chapters to edit a playlist.

### ● Playlist editing

Collect your favorite chapters to make them as one title. (Playlist)

If an original title is deleted, a playlist will be also deleted because playlists are fictitious titles.

e.g. Making a playlist by collecting scenes of cats from title 1 "The world of cats and dogs".

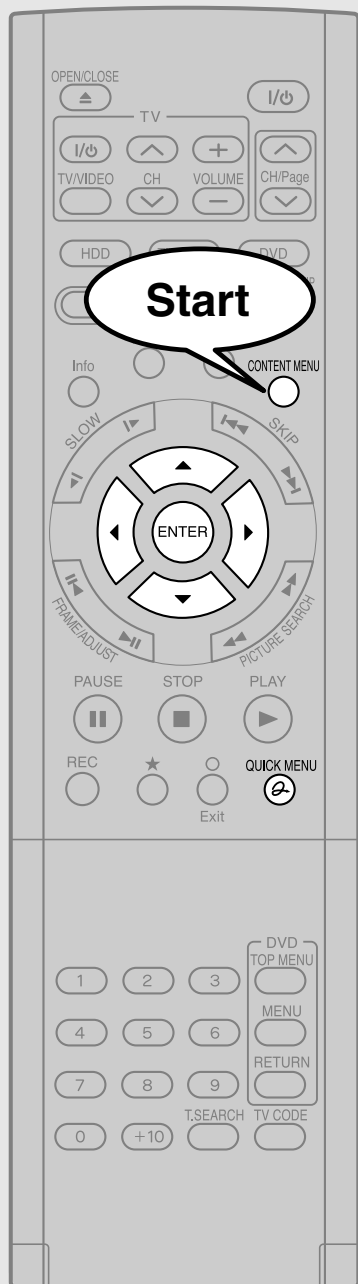


### ● Dubbing

Copy the playlist and it becomes an original title.

Using these editing functions to modify copyrighted content for any purpose other than your private viewing may be prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

## 1: Changing a name of a recorded title HDD DVD-RAM DVD-RW



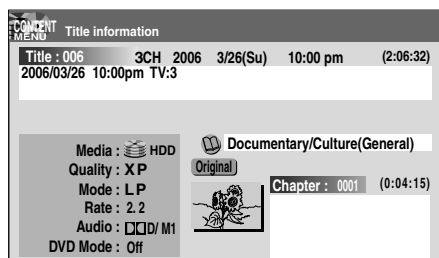
**1** Press **CONTENT MENU**, then press **▲ / ▼ / ◀ / ▶** to select a title.

**2** Press **QUICK MENU** then select “Title information” by pressing **▲ / ▼** from the Quick Menu, then press **ENTER**.



“CONTENT MENU Title information” appears.

e.g.



**3** Press **QUICK MENU** then select “Edit title name” or “Edit chapter name” by pressing **▲ / ▼** from the Quick Menu, then press **ENTER**.



The character entry screen appears.

- To change a title name or chapter name, see the steps on ➡ page 36.

## 2: Dividing a recorded title into several chapters HDD DVD-RAM

**1 title is created by recording at a time, which includes 1 chapter. By dividing it into several chapters, it will be easier to access a desired scene, and your editing or playback will be much easier.**

### ● Simple method

To create chapters in a title, insert a chapter mark. Playback the contents, locate a point where you want to divide, then press **CHP DIVIDE** button. You can insert a chapter mark also while recording, by pressing **CHP DIVIDE** button. (A chapter will also be placed in the recording when you pause.)

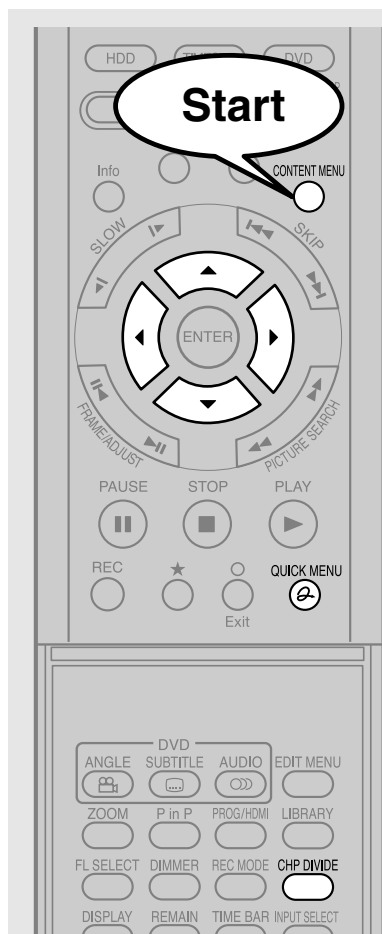
The point divides the chapter (into two). You can create multiple chapters by repeating the above operation.

### Notes

- Chapters cannot be created in the following modes:  
Dubbing / Fast-reverse, Fast-forward / Slow-motion
- You cannot divide a title of a DVD-R/RW disc into chapters. It is possible to create chapters in a DVD-R/RW disc by pressing **CHP DIVIDE** button while recording at the desired points, or by selecting an option that inserts chapter marks automatically while recording at regular intervals. (➡ page 185)

### ● Precise method

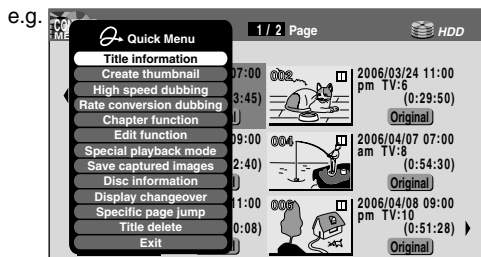
If you want to modify the chapter division, or want to place a chapter mark more precisely monitoring the frame counter, follow the procedures below.



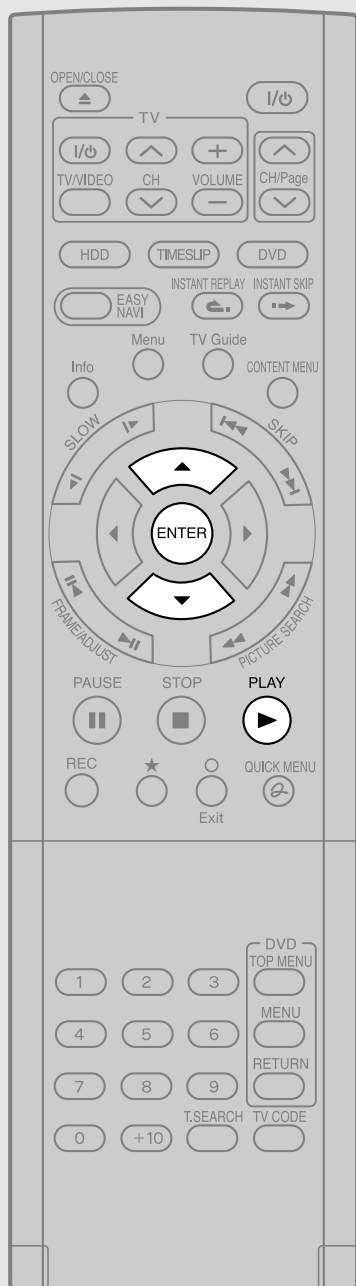
**1** Press **CONTENT MENU**, then press **▲ / ▼ / ◀ / ▶** to select a title.

**2** Press **QUICK MENU**.

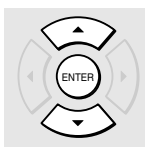
Quick Menu appears.



(Continued)

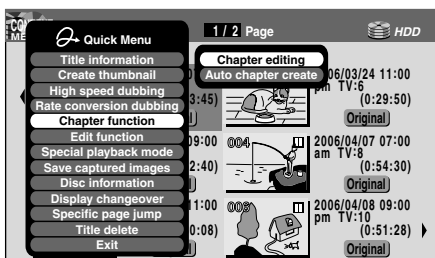


### 3 Press ▲ / ▼ to select “Chapter function”, then press ENTER.



The submenu appears.

e.g.

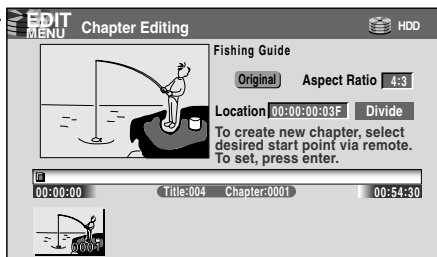


### 4 Press ▲ / ▼ to select “Chapter editing”, then press ENTER.



“EDIT MENU Chapter Editing” appears.

e.g.



### 5 Press PLAY to start playback.

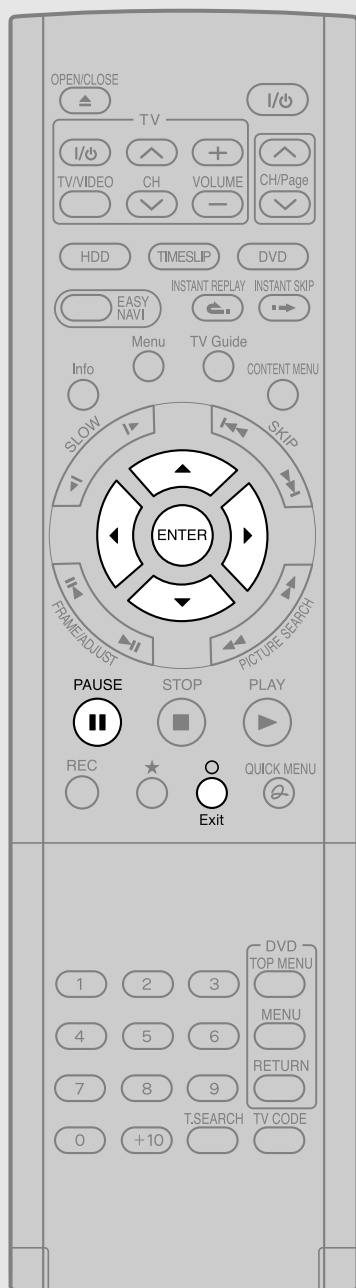


Locate a scene where you want to insert a chapter mark.

You can use the following buttons.  
PICTURE SEARCH, SLOW, SKIP, PAUSE,  
FRAME/ADJUST, etc.

The locator shows the current position on the time bar.  
And the live video plays in the upper left.

- To access other chapters:  
Press ▲ / ▼ buttons to move to the thumbnail display, then press ◀ / ▶ buttons to select a desired thumbnail. To go to the next page, press PICTURE SEARCH button.
- You can confirm the first and last scenes of a chapter.  
Select a thumbnail and press ENTER button.  
3 seconds of the first and last scenes are played.

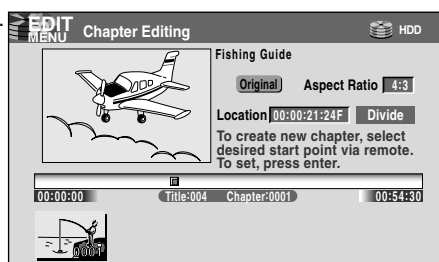


## 6 At a point where you want to make a chapter division, press PAUSE.

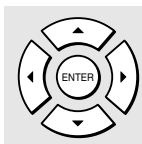


The picture pauses.

e.g.

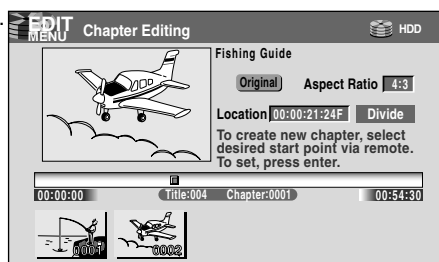


## 7 Press ▲/▼/◀/▶ to select “Divide,” then press ENTER.



A chapter division is created at the selected location, and the first scene of the new chapter is registered as a chapter thumbnail.

e.g.



## 8 Repeat steps 5 to 7.

Locations of chapter division are indicated by the markers on the time bar.

To erase a chapter division, see “Merging chapters” (➡ page 91).

## 9 When all chapter divisions have been made, press ○.



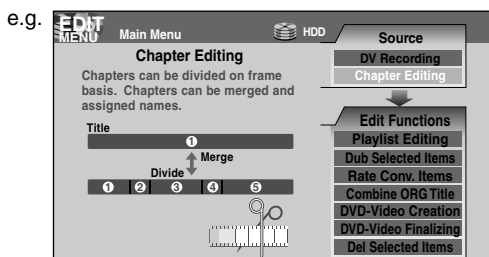
The recorder displays a message, and starts saving the chapter divisions on the time bar.

When complete, CONTENT MENU is displayed.

## Creating your own title – 2: Dividing a recorded title into several chapters (Continued)

**Notes**

- This recorder supports a limited number of chapters on a disc. If exceeded, a message appears. In this event, reduce the number of chapters by merging chapters. (➡ page 91)
- “EDIT MENU Chapter Editing” can also be viewed by selecting “Chapter Editing” from “EDIT MENU Main Menu”.



- To exit “EDIT MENU Main Menu”, press EDIT MENU button.
- Making chapters in a title (Original) does not affect the related titles (Playlist).
- There may be a small difference between a location you marked and a chapter division actually played.
- Pausing a recording automatically creates a chapter division.
- During relay recording (➡ page 56), a chapter division is automatically created at the start point of relay record.
- If you create chapters in a title which is stored in the HDD and copy the title to a DVD-R/RW, the chapter divisions may shift.

**■ Creating chapters automatically when recording**

You can create chapter marks from the beginning of a title at regular intervals automatically. (Chapter marks are added to those already existing.) This is convenient for long programs, such as live sports games.

- 1) Perform steps 1 to 4 on ➡ pages 87 to 88.
- 2) Press ▲ / ▼ to select “Auto chapter create”, then press ENTER.
- 3) Press ▲ / ▼ to select a chapter division interval, then press ENTER.

Chapter divisions are automatically marked at the selected intervals.

**■ Editing chapter break**

You can adjust positions of chapter marks. You can shift the beginning of a chapter currently selected.

- 1) Perform steps 1 to 5 on ➡ page 87 to 88.
- 2) Press QUICK MENU.
- 3) Press ▲ / ▼ to select “Chapter break edit mode”, then press ENTER.
- 4) Press ▲ / ▼ to select the item, then press ENTER.

**“by frame (VR mode)”**

The chapter mark shifts by one frame.

For contents which will be copied to DVD-RAM discs.

**“by GOP (Video mode)”**

The chapter mark shifts by a GOP (about 0.5 second), which is a unit of editing in DVD-Video format.

For contents which will be copied to DVD-R/RW.

- 5) Press ◀ / ▶ to select a chapter whose beginning you want to shift.
- 6) Press FRAME (II◀ / ▶II) repeatedly until a desired scene appears.  
Select a point while monitoring the thumbnail, which changes as you press the button.  
To operate other chapters, press ◀ / ▶ buttons to select another, then follow the above steps.
- 7) When complete, press QUICK MENU, and select “Chapter break edit mode off (by frame)” or “Chapter Break Edit Mode off (by GOP)” then press ENTER.

The recorder exits the adjusting mode.

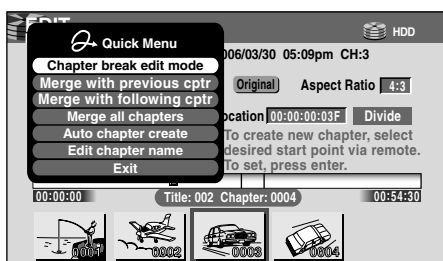
**Notes**

- You cannot shift a chapter mark beyond the adjacent chapter marks or a logical gap on recorded data within a chapter.
- Shifting a chapter mark restores a thumbnail to the beginning of a chapter. This may occur also on the previous chapter depending on the data condition.

## ■ Merging chapters

- 1) Perform steps 1 to 5 on ➡ pages 87 to 88, to view the **EDIT MENU Chapter Editing display**.
- 2) Press **▲/▼/◀/▶** to highlight a chapter.  
Pressing **PICTURE SEARCH** button can access preceding or following pages.
- 3) Press **QUICK MENU**.

e.g.



- 4) Press **▲/▼** to select an item.

### Merge with previous cptr:

To delete the chapter division between the selected chapter and the previous one.

### Merge with following cptr:

To delete the chapter division between the selected chapter and the succeeding one.

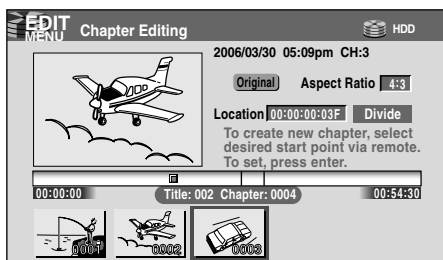
### Merge all chapters:

To merge all chapters in the title.

- 5) Press **ENTER**.

e.g. When “Merge with previous cptr” is selected:  
The selected chapter is merged into the previous chapter and its thumbnail is erased.

e.g.



## Notes

- To turn off “EDIT MENU Main Menu”, press **EDIT MENU** button.
- When chapters are merged, the numerical value of following chapters will decrease correspondingly.
- Merging chapters does not affect the related titles (Playlist). You can also merge chapters in the title (Playlist). In this case, the title (Original) is not affected.
- You can access the feature of merging chapters also from Quick Menu on **CONTENT MENU Chapter List**.

## ■ Naming a chapter

- 1) From **EDIT MENU Chapter Editing**, select a chapter which you want to name.
- 2) Press **QUICK MENU**.
- 3) Press **▲/▼/◀/▶** to select “Edit Chapter Name”, then press **ENTER**.

A keyboard appears.

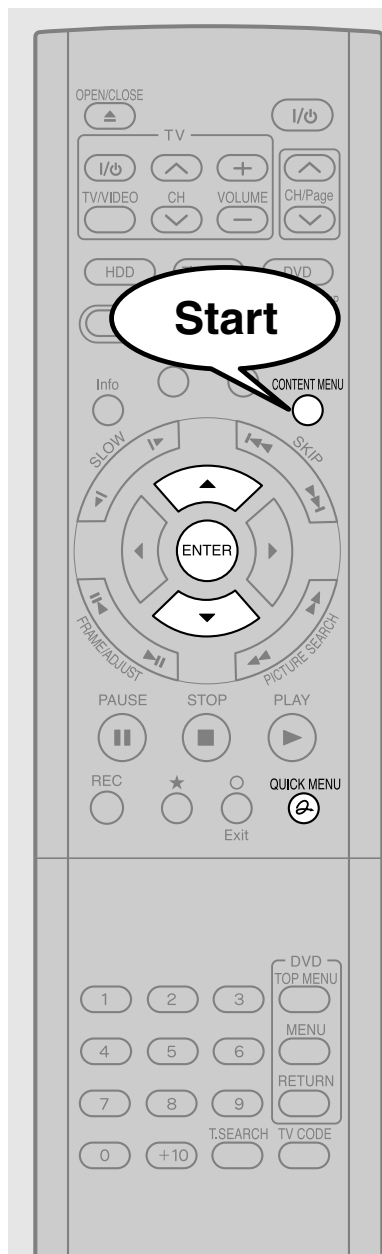
Enter a name following the on-screen icon guides.

## Notes

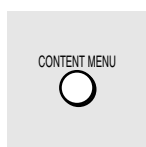
- There is a limit to the number of chapters which can be named. If exceeded, a message appears.
- You can also access the keyboard to enter a chapter name by selecting a chapter with **PICTURE SEARCH** button on **CONTENT MENU Title Information**, and by selecting “Edit chapter name” from the Quick Menu on **CONTENT MENU Chapter List**.
- You can change chapter names also on a **DVD-R/RW** disc, if the disc is not finalized yet.

### 3: Collecting necessary scenes HDD DVD-RAM

Create a “Playlist” to omit unnecessary scenes for dubbing, or compile desired scenes.



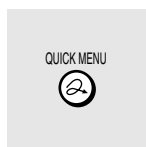
## 1 Press CONTENT MENU.



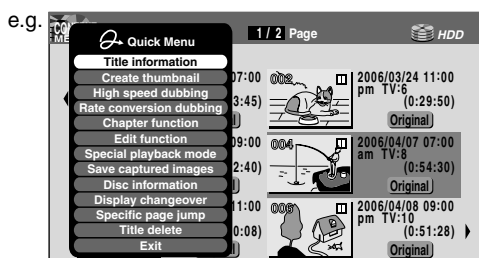
“CONTENT MENU Title List” appears.

Pressing the HDD or DVD button can switch the drives.

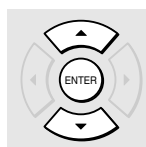
## 2 Press QUICK MENU.



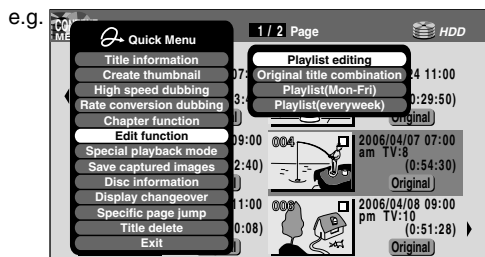
Quick Menu appears.



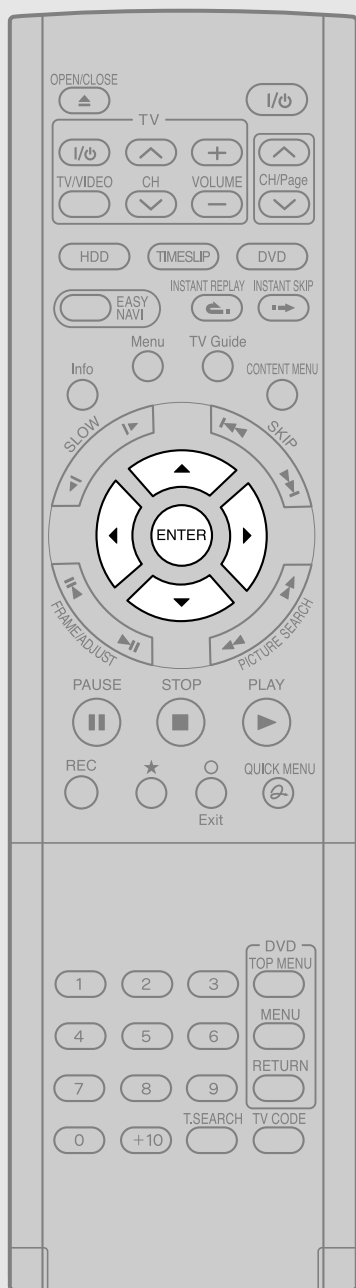
## 3 Press ▲ / ▼ to select “Edit function”, then press ENTER.



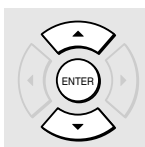
Submenu appears.





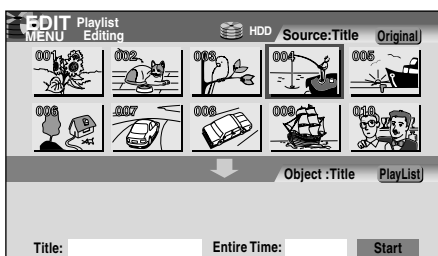


## 4 Press ▲ / ▼ to select “Playlist editing”, then press ENTER.

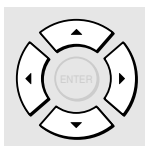


“EDIT MENU Playlist editing” appears.

e.g.

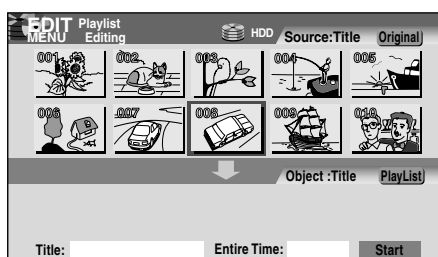


## 5 Press ▲ / ▼ / ◀ / ▶ to select a title or chapter.

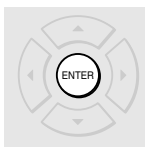


To select between titles and chapters, press ★ button.

e.g.

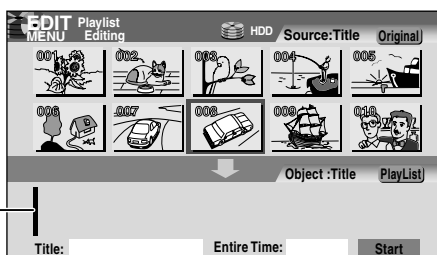


## 6 Press ENTER.



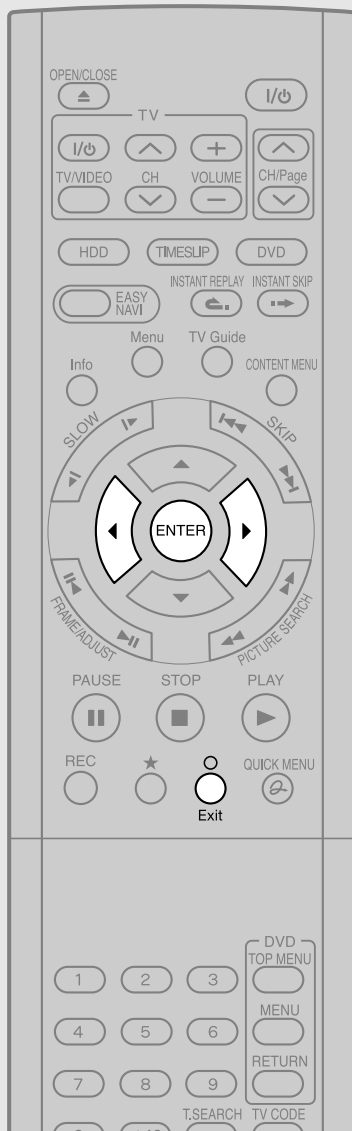
A cursor appears, indicating the point where the selected item will be inserted.

e.g.

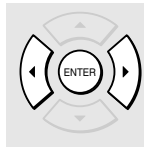


Cursor

(Continued)



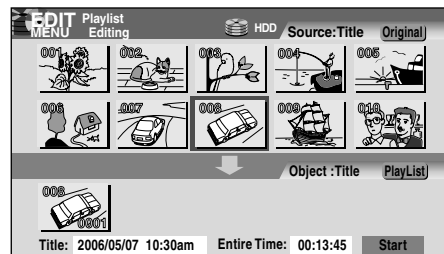
## 7 Press ◀/▶ to select a point where you want to insert the item, then press ENTER.



If there are no parts in the lower area, leave the cursor to the left and press ENTER button.

The selected part is inserted at the location of the cursor.

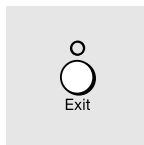
e.g.



## 8 Repeat steps 5 to 7 to insert items.

To cancel the selection, see “Canceling selection of a part” (➡ page 95).

## 9 When all items have been inserted, press ○.



The recorder displays a message, and starts saving the Playlist.

When completed, CONTENT MENU is displayed.

### Notes

- You can access “EDIT MENU Playlist Editing” also by selecting “Playlist editing” on EDIT MENU.
- If you delete titles and chapters (Original), the corresponding titles and chapters (Playlist) are also deleted. Contrarily, if you delete titles and chapters (Playlist), the corresponding titles and chapters (Original) are not deleted.
- Playback may pause if a gap between the content is played.
- There may be a small difference between the chapter boundary and the actual playback picture.
- A title or chapter which is being edited cannot be selected as an item.
- You cannot add a title of still pictures, or a title or a chapter which contains both still and moving pictures, to a playlist.
- By copying (dubbing) a Playlist, a title (Original) of the same contents is created.
- You cannot program a Playlist of contents recorded on a DVD-R/RW disc.
- Down arrow on the thumbnails means: Orange: This title already selected. Green trimmed: Some chapters in this title already selected. Green: This chapter already selected.
- A black thumbnail with “Recording” means that the title is being recorded or its recording will start within 10 seconds. This thumbnail cannot start playback.

### ■ Canceling selection of a part

- 1) From **EDIT MENU Playlist editing**, press **▲ / ▼ / ◀ / ▶** to select a part to cancel.
- 2) Press **QUICK MENU**.  
Quick Menu appears.
- 3) Press **▲ / ▼** to select **"Cancel selected title"**, then press **ENTER**.  
The part you have selected is canceled.

### ■ Confirming the first and last scenes of a part or a Playlist

You can play the first and last 3 seconds of a scene (Preview). (If a title contains several chapters, the first and last scenes of the chapters are also played.)

Preview of a part:

- 1) At step 5 on ➡ page 93, select a title or a chapter, then press **QUICK MENU**.
- 2) Press **▲ / ▼** to select **"Preview"**, then press **ENTER**.

Preview of all parts:

- 1) Move the cursor to an any part (in the lower area), then press **QUICK MENU** button.
- 2) Press **▲ / ▼** to select **"Preview all playlists"**, then press **ENTER**.

### ■ Confirming the title information

- 1) At step 5 on ➡ page 93, select a title or a chapter, then press **QUICK MENU**.
- 2) Press **▲ / ▼** to select **"Title information"** then press **ENTER**.

### ■ Correcting a Playlist

You can add or delete parts to correct a Playlist.

- 1) From **CONTENT MENU**, select a playlist to correct.
- 2) Press **QUICK MENU**.
- 3) Press **▲ / ▼** to select **"Playlist re-editing"** and then press **ENTER**.  
"EDIT MENU Playlist editing" appears.

Follow the procedure from steps 5 on ➡ page 93, add or delete parts as necessary.

#### Note

- You cannot edit a title (Playlist) of still pictures, or a title (Playlist) which contains both still and moving pictures.

### ■ Using a part in a Playlist also in another Playlist

- 1) Press **EDIT MENU**.  
"EDIT MENU Main Menu" appears.
- 2) Press **▲ / ▼ / ◀ / ▶** to select **"Playlist editing,"** then press **ENTER**.  
"EDIT MENU Playlist editing" appears.
- 3) Press **▲ / ▼ / ◀ / ▶** to select **"Start"** then press **ENTER**.  
The areas of title name and part selection become blank.
- 4) Following the procedures outlined on ➡ page 93, make a Playlist.

### ■ Naming a title (Playlist)

- 1) From **EDIT MENU Playlist editing**, move a cursor to the lower side (selected parts) then press **QUICK MENU**.
- 2) Press **▲ / ▼** to select **"Edit title name,"** then press **ENTER**.  
A keyboard appears.
- 3) Following the procedures outlined on ➡ page 36, enter a title name.

#### Note

- You can name a title also while viewing its information. From **"CONTENT MENU Title List"**, select a title and press **QUICK MENU** button then select **"Title Information"** by **▲ / ▼** buttons and **ENTER** button. Further press **QUICK MENU** button, and select **"Edit title name"** by **▲ / ▼** buttons and **ENTER** button.

■ **Making a Playlist of recorded contents where starting times are the same (i.e. daily or weekly recordings)**

This will help to sort serials.

- 1) From “CONTENT MENU Title List”, press **QUICK MENU**.
- 2) Press **▲ / ▼** to select “Edit function”, then press **ENTER**.
- 3) Press **▲ / ▼** to select the item.
  - “**Playlist(Mon-Fri)**”  
To sort out programs recorded on the same time on Monday to Friday to make a Playlist.
  - “**Playlist(every week)**”  
To sort out programs recorded on the same time of the same day of the week to make a Playlist.
- 4) Press **ENTER**.

**Notes**

- Only titles (Original) can be sorted.
- The maximum number of sorted titles on a DVD-RAM disc is 99.
- If you modify the recording start time or date of one of the recorded serials, the title will not be sorted out. Contrarily, any program can be sorted if its channel, recording start time and date are modified as the same as others.
- “Playlist(Mon-Fri)” can sort titles even if they are not complete 5 collections of Monday to Friday, on the condition that they have the same channel and recording start time, and exclude Saturday and Sunday.

## 4: Dubbing to save

You can dub (copy or move) contents recorded in the HDD or DVD-RAM/R/RW, between HDD and DVD-RAM drive or within the same drives.

Learn about dubbing on this recorder to select the best method.

Purpose	Operation
<ul style="list-style-type: none"> <li>● Dubbing a whole title or a chapter</li> </ul>	<b>⇒ A: High speed dubbing</b> (⇒ page 100)
Converting a title (Playlist) into a title (Original)	
<ul style="list-style-type: none"> <li>● Dubbing a title reducing its data size</li> </ul>	<b>⇒ B: Rate conversion dubbing</b> (⇒ page 106)
<ul style="list-style-type: none"> <li>● Dubbing a title which is being played</li> </ul>	<b>⇒ C: Line-U dubbing</b> (⇒ page 110)
<ul style="list-style-type: none"> <li>● Dubbing titles recorded on the HDD to DVD-R/RW for distribution to DVD player users</li> </ul>	<b>⇒ Creating a DVD-Video using DVD-R/RW</b> (⇒ page 112)

### A: High speed dubbing

You can copy recorded contents without changing the picture and sound quality.

“High speed” means the dubbing time is shorter than the actual time of the content.

Use this function on the purposes such as the followings:

- when you copy a whole title to a DVD-RAM/R/RW disc.
- when you convert a Playlist into an Original title (produce an Original title from a Playlist)

#### High speed dubbing of several contents - “Dub selected items”

You can select titles and chapters and copy them all at once.

### B: Rate conversion dubbing

You can copy content and change its data size from the original recording.

Use this function on the purposes such as the followings:

- When you have recorded a content on the HDD at a high rate, and you cannot copy it to a DVD-RAM disc because the data size is too large. (→ Reduce the data size.)

- When you recorded a content while “DVD compatible mode” (⇒ page 184) was set to “Off”, and you cannot copy it to a DVD-R/RW in the DVD-Video format; or when a DVD-RAM disc was recorded with the other equipment which is not compatible with this recorder’s recording format, and you want to copy it to a DVD-R/RW (→ Set “DVD compatible mode” to “Main” or “SAP”.)

#### Rate conversion dubbing of several parts

You can select titles and chapters and change the data size and copy them all at once.

Use this function when you unify the compatibility of several titles and contents all at once.

### C: Line-U dubbing

You can record pictures recorded which is being played.

Use this function when you want to copy contents in DVD-R/RW recorded on other device, which cannot show thumbnails in “CONTENT MENU Title List”, to the HDD.

All the above functions can copy data as original digital signals. “Rate conversion dubbing” and “Line-U dubbing”, however, needs data processing and may deteriorate the original picture and sound quality. Also, it is not possible to improve the picture and sound quality by the Rate conversion dubbing at increased bit rate.

## Creating your own title – 4: Dubbing to save (Continued)

From	To	High speed Library dubbing	High speed Library dubbing of several parts	Rate conversion dubbing	Rate conversion dubbing of several parts	Line-U dubbing
HDD	HDD	Yes	Yes	Yes	Yes	Yes
	DVD-RAM	Yes	Yes	Yes	Yes	Yes
	DVD-R/RW (Not finalized yet)	Yes	Yes	Yes	Yes	Yes
DVD-RAM	HDD	Yes	Yes	Yes	Yes	Yes
	DVD-RAM	Yes	Yes	No	No	No
DVD-R/RW	HDD	Yes	Yes	Yes	Yes	Yes
	DVD-R/RW	No	No	No	No	No

- It is not possible to copy to a DVD-R/RW of DVD-VR mode.
- “High speed dubbing” between the HDD and a DVD-R/RW recorded on other equipment is not possible.
- “High speed dubbing” to a finalized DVD-R/RW is not possible.
- “Line-U dubbing” using a DVD-R/RW which was recorded on other equipment and is not finalized yet is not possible.

### ■ “Copy” and “Move”

This recorder’s “Dubbing” has the following two definitions:

#### Copy:

The original program remains after the operation is completed.

#### Move:

The moved program will be erased from the original location after the operation is completed.

Whether or not you select either command depends entirely on the given situation. The command may be predetermined in some situations.

You cannot “move” contents in the following situations. (Instead, you will want to “copy” them.)

- The content is protected (➡ page 56).
- A specified portion of the title (chapter) is copy-protected, in which case, you cannot move from DVD-RAM to the HDD.
- You cannot move a Playlist. Only copying is permitted. When you copy a Playlist to a disc, it will be treated as Original on the disc. The original Playlist does not change to an Original.

Also, you cannot “move” or “copy” contents in the following situations:













- The recorded content contains a program that permits a single copy only.
- The title (Playlist) contains a portion that prohibits copying. Edit the title from the Original and create a new Playlist.

### Notes

- If either the HDD or DVD-RAM is not in optimum physical condition, an error may occur when you execute “Move” and some titles or chapters may be lost. If you want to “Move” non-copy-protected titles and chapters, it is recommended for safety that you first “Copy” them to the opposite drive and confirm they have been copied properly. Then delete the titles and chapters to which you have executed “Move”.
- The recorder cannot copy/move the following discs:  
DVD-VIDEO  
VIDEO CD  
Audio CD  
CD-R  
CD-RW
- If you cannot copy/move for some other reason, such as insufficient disc capacity, etc., a message will appear on screen. In such a case, follow the instructions in the message.
- Depending on the content, associated information such as data management may not be copied/moved.
- You cannot copy/move titles containing still pictures.
- Dubbing to DVD-R/RW may divide the original title depending on the contents. Also, the DVD-Video format recording (➡ page 112) may shift thumbnails.
- A part with aspect ratio 16:9 recorded at bit rate 1.0Mbps or 1.4Mbps cannot be dubbed to a DVD-R/RW. Change the aspect ratio to 4:3.
- “High speed dubbing” (➡ page 100) and “A: High speed dubbing (Dubbing specified parts together)” (➡ page 102) procedures always comply with “Aspect ratio(Video mode)” setting (➡ page 184).

## ■ Recording and playback while dubbing

Dubbing process by “High speed dubbing” and “Dub selected items” procedures will allow you to make a recording or playback of other titles.


	 <b>HDD</b> Playback	 <b>HDD</b> Recording	 <b>DVD</b> Playback	 <b>DVD</b> Recording
 <b>HDD</b> →  <b>DVD</b>	Available	Available	Not available	Not available
 <b>DVD</b> →  <b>HDD</b>	Not available	Not available	Not available	Not available
 <b>HDD</b> →  <b>HDD</b>	Not available	Not available	Available	Available
 <b>DVD</b> →  <b>DVD</b>	Available	Available	Not available	Not available

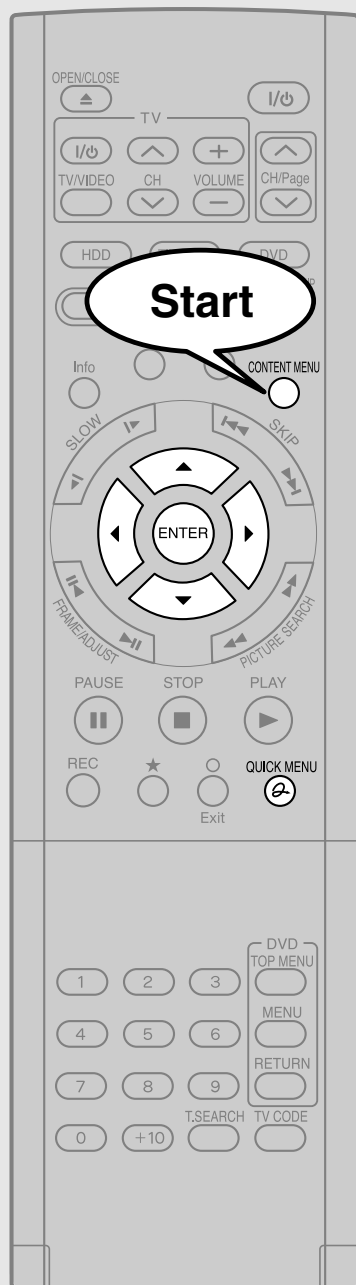
### Notes

- Timer programmed recording have priority over other operations. Dubbing may be stopped if a timer program recording starts.
- While recording and dubbing are in progress at the same time, CONTENT MENU and LIBRARY MENU will not appear.
- Playing a recorded title while recording another on the same disc (➡ page 48), is not possible while dubbing.

**A: High speed dubbing (Dubbing only a specified part)**

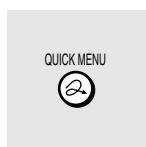
HDD DVD-RAM DVD-RW DVD-R

This section explains how to dub a specific title or chapter. To select several parts and dub them all at once, refer to  page 102.



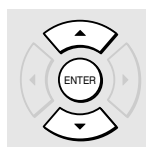
**1** Press **CONTENT MENU**, then press **▲ / ▼ / ◀ / ▶** to select a title.

**2** Press **QUICK MENU**.



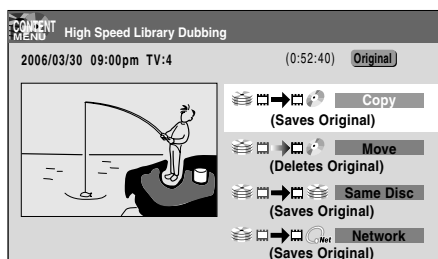
The Quick Menu appears.

**3** Press **▲ / ▼** to select “High speed dubbing” from the Quick Menu, then press **ENTER**.

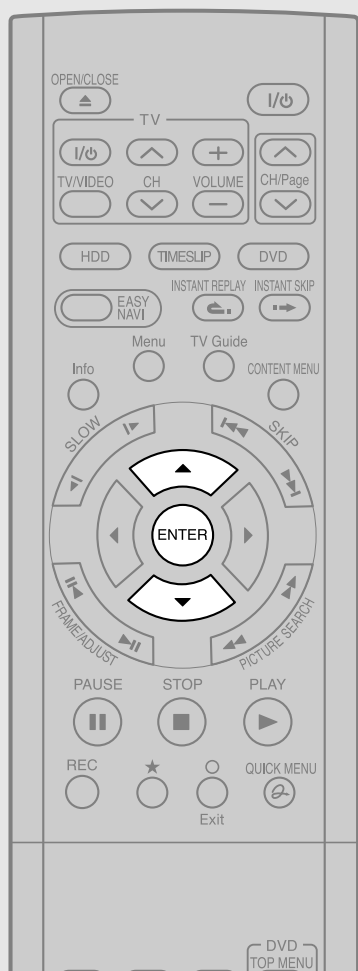


“CONTENT MENU High Speed Library Dubbing” appears.

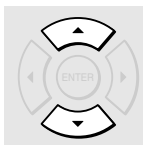
e.g.







## 4 Press ▲ / ▼ to select “Copy”, “Move”, “Same Disc” or “Network”.



### Copy:

After the operation is completed, a specified part will remain on the disc where it was previously located.

### Move:

A part will move to the opposite disc and will be erased from the disc where it was previously located.

### Same Disc:

A part will be copied to the same disc and the copied part will become another title.

This operation is useful to change a Playlist to Original.

### Network:

To copy to another TOSHIBA DVD recorder within the same network.

See “Network Navi” (➡ page 141).

“Copy” or “Move” is automatically selected in the following cases.

### Copy:

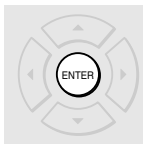
When a specified title (or chapter) is a Playlist.

When a specified title (or chapter) is locked (➡ page 56).

### Move:

When a specified title (or chapter) is copy-protected.

## 5 Press ENTER.



Copying starts.

The job progress is displayed on the screen and the front panel display.

When the job finishes, the graph disappears and the buzzer sounds.

You can set the recorder to turn off automatically when the job finishes.

- (1) During the operation, press QUICK MENU button.
- (2) Press ▲ / ▼ buttons to select “Auto power off”.
- (3) Press ENTER button.

### Notes

- A title or a chapter becomes a title by being copied.
- “Same Disc” job using a DVD-RAM disc will take a longer time.
- “Same Disc” is not available on DVD-R/RW.
- “Move” is not available between the HDD and DVD-R/RW.
- Some parts in DVD-R/RW may be divided if dubbed.
- For a copy-once permitted content, only moving from the HDD to a DVD-RAM disc is available. Executing this will delete the original content in the HDD, and the one moved to a DVD-RAM will not be able to moved or copied.
- “High speed dubbing” is not available between the HDD and DVD-R/RW recorded on other equipment.
- If you record a title directly onto a DVD-R/RW in the DVD-Video mode on this recorder and execute “High speed dubbing” on the title to the HDD, the recorder may display a message to initialize the HDD. In this case, delete the title or execute “All HDD titles delete” (➡ page 186).

### ■ To cancel copying halfway through the operation

#### 1) While copying, press QUICK MENU.

Quick Menu appears.

#### 2) Press ▲ / ▼ to select “Cancel dubbing”, then press ENTER.

### Notes

- Cancellation of a copying operation will result in deletion of a portion of the title or chapter already copied.
- Cancellation of a copying to a DVD-R cannot restore the disc space in the DVD-R.

**A: High speed dubbing (Dubbing specified parts together)**

HDD DVD-RAM DVD-RW DVD-R

This section explains how to copy several specific titles or chapters. Assigned names of titles/chapters or other information can also be copied. A title or chapter becomes a title by being copied.



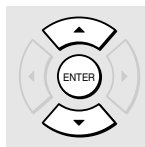
**1** Press HDD or DVD to select a disc that contains titles or chapters you want to copy.



**2** Press EDIT MENU.



**3** Press ▲ / ▼ to select “Dub Selected Items”, then press ENTER.



“EDIT MENU Dub Selected Items” appears.

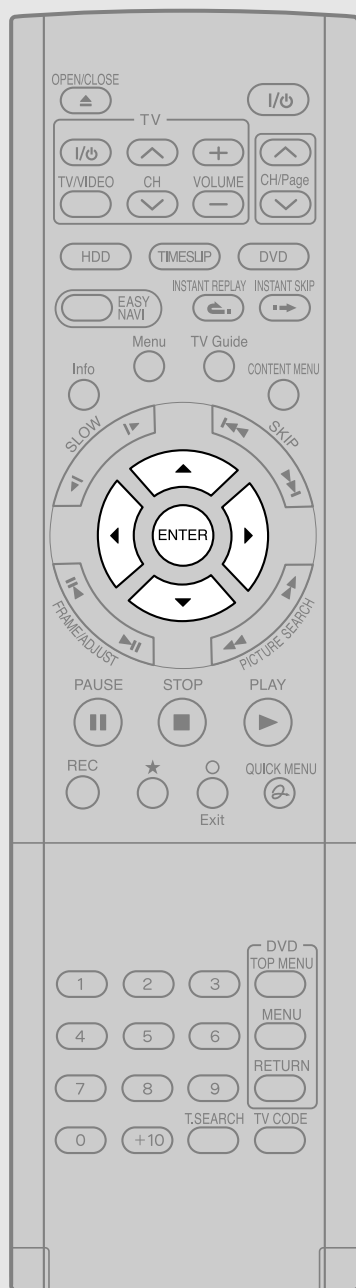
e.g.



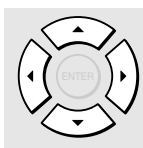
Thumbnails of the parts in the disc are displayed in the upper area.

To change the dubbing destination:

- 1) Press QUICK MENU button.
- 2) Press ▲ / ▼ buttons to select “Change media to HDD” or “Change Media to DVD”.
- 3) Press ENTER button.



## 4 Press ▲/▼/◀/▶ to select a part (a title or chapter) to copy.



- To go to the next or previous page, press PICTURE SEARCH (◀◀/▶▶) button.
- To select a chapter, first select the title that contains the chapter you want, then press ★ button. To go back to the title display, press ★ button again.



## 5 Press ENTER.

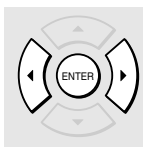


A cursor appears in the lower area (destination media).



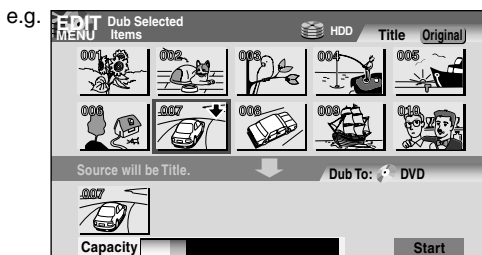
Cursor

## 6 Press ◀/▶ to select a location to place the selected part, then press ENTER.

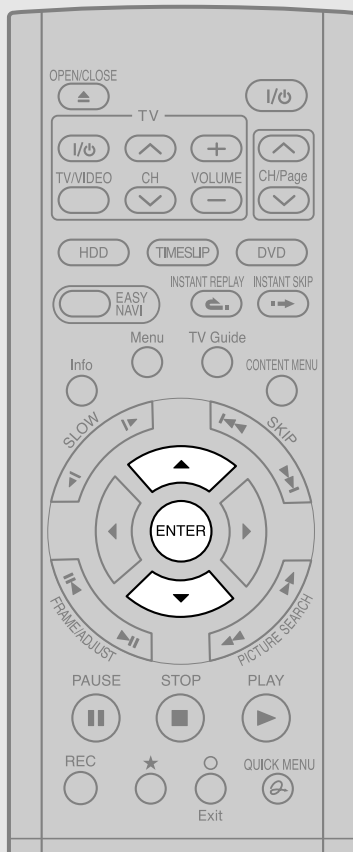


If there are no parts in the lower area, leave the cursor to the left and press ENTER button.

The selected part is inserted into the location of the cursor.



(Continued)



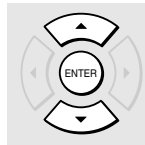
## 7 Repeat steps 4 to 6.

You can confirm the available space of the destination media via the bar at the bottom of the display.

Each of the collected parts is recorded on the destination media as a title.

- To cancel selection of an individual part, see ➡ page 105.

## 8 Press ▲ / ▼ to select “Start”, press ENTER, and select “Yes”, then press ENTER.



The broadcast picture appears and dubbing starts. The progress for each title is displayed on the screen and in the front panel display on the recorder. The buzzer sounds when the operation is completed.

You can set the recorder to turn off automatically when the job is completed.

- 1) During the job, press QUICK MENU button.
- 2) Press ▲ / ▼ buttons to select “Auto power off”.
- 3) Press ENTER button.

### Notes

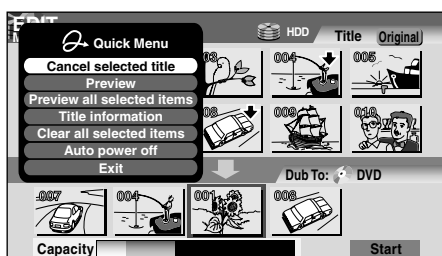
- This procedure of “Dub Selected Items” of specified parts does not move them. If you do not want to leave the items on the original disc, delete them in the procedure for “Deleting recorded contents” (➡ page 55).
- To confirm the contents of an item, first select the item by using ▲ / ▼ / ◀ / ▶ buttons and press QUICK MENU button to display Quick Menu. Press ▲ / ▼ buttons to select “Preview” (or “Title information”) then press ENTER button.
- Each part, when selected, shows its name at the bottom of the menu for about 2 seconds.
- “High speed dubbing” is not available between the HDD and DVD-R/RW recorded on other equipment.
- Dubbing procedures to DVD-R/RW always comply with “Aspect ratio(Video mode)” setting (➡ page 184).
- Some parts in DVD-R/RW may be divided if dubbed.
- If you record a title directly onto a DVD-R/RW in the DVD-Video mode on this recorder and execute “High speed dubbing” on the title to the HDD, the recorder may display a message to initialize the HDD. In this case, delete the title or execute “All HDD titles delete” (➡ page 186).

## ■ Cancelling selection of an item

- 1) Press **▲ / ▼ / ◀ / ▶** to select an item then press **QUICK MENU**.

Quick Menu appears.


e.g.



- 2) Press **▲ / ▼** to select “Cancel selected title” (or “All clear” for cancelling selection of multiple items at a time).

- 3) Press **ENTER**.

## ■ Changing the position of an item

Follow the procedure above to cancel selection of the item, then repeat steps 4 to 6 on  page 103 to insert the item into its desired location.

## ■ Cancelling while dubbing

Press **QUICK MENU** to display Quick Menu. Press **▲ / ▼** to select “Cancel dubbing”, then press **ENTER**.

### Note

- This procedure copies items according to their order indicated in the lower area. Therefore, there may be a case that some items have already been copied at the time you cancel dubbing.

## B: Rate conversion dubbing (Dubbing at a modified bit rate)

HDD DVD-RAM DVD-RW DVD-R

You can reduce the recorded picture or sound rate when copying. This procedure enables content originally recorded onto the HDD at high rate setting to be dubbed onto a DVD-RAM disc at a reduced bit rate.

### Use the Rate conversion dubbing when

- you recorded a lengthy content on the HDD using the manual high rate, and it is too large to dub onto the DVD-RAM disc.
- you recorded a title with setting the “DVD compatible mode” (➡ page 184) to “Off”, and you want to make a DVD-R/RW disc for that title, or you used another recorder to record a title on a DVD-RAM disc, and you want to create a DVD-R/RW disc for that title (Set “DVD compatible mode” to “Main” or “SAP” then execute this procedure).

The Rate conversion dubbing can be performed in two different ways: **part by part** or **multiple parts in one time**. (To dub multiple parts in one time, the same rate is applied to all parts. You cannot set a different rate to each part.)

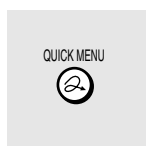
### ● Rate conversion dubbing for part by part



**1** Press HDD or DVD to select a disc containing the parts that you want to dub.

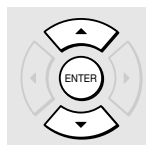
**2** Press CONTENT MENU, then press ▲ / ▼ / ◀ / ▶ to select a title.

**3** Press QUICK MENU.



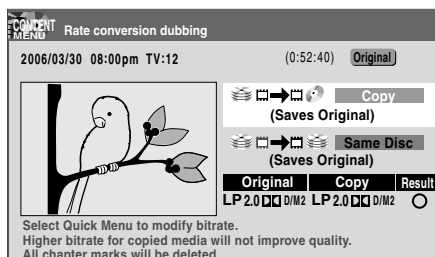
Quick Menu appears.

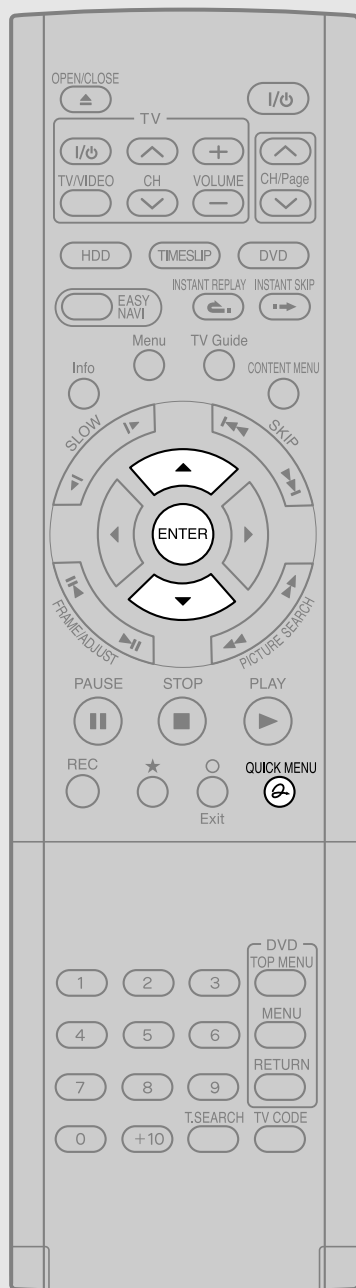
**4** Press ▲ / ▼ to select “Rate conversion dubbing”, then press ENTER.



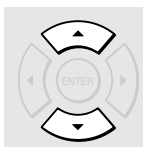
“CONTENT MENU Rate Conversion Dub” appears.

e.g.





## 5 Press ▲ / ▼ to select “Copy” or “Same Disc”.



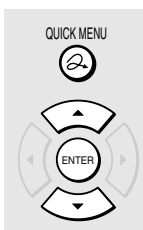
### Copy:

After the operation is completed, a specified part will remain on the disc where it was previously located.

### Same Disc:

A part will be copied to the same disc and the copied part will become another title.

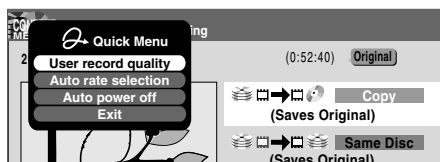
## 6 Confirm picture and sound rates.



To make changes, follow the procedure below.

- 1) Press QUICK MENU button to display Quick Menu.

e.g.



- 2) Press ▲ / ▼ buttons to select an item then press ENTER button.

### User record quality:

The current settings you have made (➡ page 183) are listed. Press ADJUST (-/+) button to select a desired setting.

### Auto rate selection:

The recorder automatically selects the highest possible rate, calculating from current unoccupied volume on the disc. (This operation does not insure full recording of any length program or whole use of unoccupied volume.)

## 7 Press ENTER.



Copying starts.

To confirm the job progress, press TIME BAR button to display the time bar. (The time bar cannot be copied.) When copying is completed, the buzzer sounds and the current broadcast picture appears.

Pictures and sounds displayed during copying are for monitoring purposes only. Recorded picture quality may vary.

## ● Rate Conversion Dubbing for multiple parts



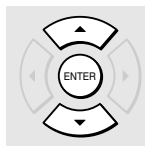
**1** Press **HDD** or **DVD** to select a disc containing the parts you want to dub.

**2** Press **EDIT MENU**.



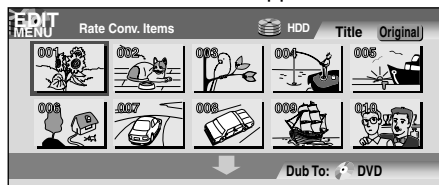
"EDIT MENU Main Menu" appears.

**3** Press **▲ / ▼** to select "Rate Conv. Items", then press **ENTER**.



"EDIT MENU Rate Conv. Items" appears.

e.g.



**4** Collect parts to be dubbed, using steps 4 to 6 on ➡ page 103.

Each of the collected parts is recorded on the destination media as a title.

You can cancel selection of an individual part.

- 1) Press **▲ / ▼ / ◀ / ▶** buttons to select an item then press **QUICK MENU** button.  
Quick Menu appears.
- 2) Press **▲ / ▼** buttons to select "Cancel selected title" (or "All clear" for cancelling selection of multiple items at a time).
- 3) Press **ENTER** button.



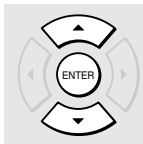
## 5 Check the rate for picture and sound quality.

To change the setting, perform the following steps.

- 1) Press QUICK MENU button to display Quick Menu.
- 2) Press ▲ / ▼ buttons to select "User record quality" and press ENTER button.
- 3) Press ADJUST (II◀ / ▶II) button to select the setting number and press ENTER button.

When "Copy" on the bottom shows "X", the selected parts are beyond the disc capacity. Change the rate for picture and sound quality or reduce parts to dub.

## 6 Press ▲ / ▼ to select "Start", and select "Yes", then press ENTER.



Copying starts.

To confirm the job progress, press TIME BAR button to display the time bar. (The time bar cannot be copied.)

When copying is completed, the buzzer sounds and the current broadcast picture appears.

Pictures and sounds displayed during copying are for monitoring purposes only. Recorded picture quality may vary.

### ■ Cancelling dubbing during rate conversion dubbing

- 1) Press QUICK MENU.
- 2) Press ▲ / ▼ to select "Cancel dubbing".
- 3) Press ENTER.

#### Note

- A portion of content from the start of recording to the moment you cancel dubbing will be copied.

### ■ Turning off the power automatically after dubbing

- 1) While dubbing, press QUICK MENU.
- 2) Press ▲ / ▼ to select "Auto power off".
- 3) Press ENTER.

#### Notes

- Unlike High speed dubbing, Rate conversion dubbing may cause slight deterioration in picture and sound quality of recorded content. The time required for dubbing is about the same as the playback time of the content.
- Quality will not be improved even if you select a rate higher than original content.
- Rate conversion dubbing to the same DVD-RAM/R/RW disc is not possible.
- The recorder automatically inserts a black picture for a moment before and after the new title produced by this recording process.
- You cannot use the Rate Conversion Dubbing for copying from a DVD-RAM disc to another DVD-RAM disc.

- During Rate conversion dubbing, the relay recording function (▶ page 185) is disabled even if "Relay Recording" is set to "On".
- During Rate conversion dubbing, switching the audio channel is not possible.
- Audio processed under the Rate conversion dubbing is recorded in stereo.
- When you record an SAP program and play it back, the main and sub sound are output at the same time. Select the sound by pressing AUDIO button.
- When you set "DVD compatible Mode" to "Main" or "SAP" (▶ page 184), only a selected sound (the main or sub sound) of the SAP program is recorded. (Stereo broadcasting is recorded as stereo).
- If you perform the Rate conversion dubbing for a Playlist, containing a chapter that is the beginning of the Original title at recording, one frame at the beginning will be removed.
- During Rate conversion dubbing, P in P function (▶ page 70) is disabled.
- Rate conversion dubbing to DVD-R/RW selects aspect ratio according to the first title of dubbed items.
- Each part, when selected, shows its name at the bottom of the menu for about 2 seconds.


**C: Line-U dubbing (Recording pictures while viewing them)** HDD DVD-RAM DVD-RW DVD-R

You can record the picture being played back in either disc, or to the other disc, if the content is not copy-protected. This procedure can be used also to copy contents of a DVD-R/RW you created (➡ page 112), back to the HDD.

■ **Preparation**

- Make sure that the destination disc has adequate available remaining space.
- When you want to copy to the HDD, load a disc you want to play.

**Example: To copy from a DVD-RAM disc to the HDD**



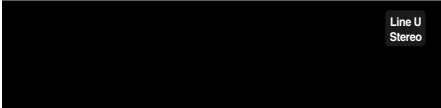
1

**Press INPUT SELECT or CH/Page repeatedly to select “LineU.”**

INPUT SELECT

CH/Page

A black screen appears.



2


**Press HDD.**

HDD

3

**Press REC.**

Recording starts.



4

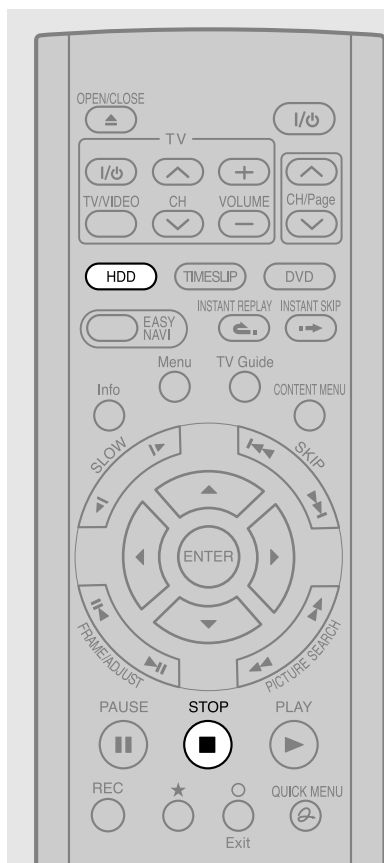
**Press DVD.**

DVD

5

**Start playing.**

PLAY



## 6 When playback of contents you want to copy is finished, press STOP.

STOP



Playing stops, and a black screen returns.

## 7 Press HDD.

HDD



## 8 Press STOP.

STOP



Recording stops.

### Notes

- The following combinations of a source and a destination disc are possible.  
HDD to HDD, HDD to DVD-RAM, HDD to DVD-R/RW, DVD-RAM to HDD, DVD-R/RW to HDD
- A title dubbed by this procedure has black pictures at both the beginning and the end of the title. Therefore thumbnails in CONTENT MENU may be black. If you change the thumbnail, see ➡ page 126.
- You can record still pictures and slow pictures during playback.
- Contents of DVD VIDEO, VIDEO CD and audio CD cannot be recorded with "Line-U dubbing".
- "Line-U dubbing" may cause slight deterioration in picture and sound quality of contents.
- Screen menus such as CONTENT MENU or EDIT MENU cannot be recorded by "Line-U dubbing".
- "Line-U dubbing" cannot be set as programme recording.
- When doing this procedure, programmed recording must not be initiated. If you display TV Guide On Screen®, playback is automatically canceled.
- When setting the input to Line-U, audio output is set to stereo automatically. You cannot switch the audio channel. During "Line-U dubbing", you can change the audio output.
- Accompanying audio content to be recorded with "Line-U dubbing" is always in stereo.
- During "Line-U dubbing", the virtual surround function (➡ page 180) is disabled.
- Even if "Relay recording" is set to "On" (➡ page 185), the relay recording function is disabled during "Line-U dubbing".
- For "Line-U dubbing", a scene permitting copy-once cannot be copied.
- During Line-U dubbing, P in P function (➡ page 70) is disabled.

# Creating a DVD-Video using DVD-R/RW

Content stored on the HDD of the recorder can be edited and copied to a DVD-R/RW, a popular media for distribution, and played on a compatible DVD video player.

## Notice

- **Beforehand confirm the contents of a disc.**

If you use a DVD-R disc, prepare a new one. This DVD-Video creation procedure is possible only once per disc on this recorder. Once you have copied to a DVD-R, you cannot redo, add, delete, or correct the copied contents in the disc. If you start copying then cancel the job, you cannot re-use the DVD-R.

If you use a DVD-RW, be sure to confirm the contents in it. This procedure overwrites a whole disc, and all of the contents in a DVD-RW will be lost. If you want to add contents to a DVD-RW, do not use this procedure. Record directly or make a dubbing to the DVD-RW, then execute the finalization (➡ page 122). This procedure includes the finalizing process, and you will not be able to add, delete, or correct contents to a DVD-RW later, as it will have been finalized. If a finalized DVD-RW has remaining space, you can add contents there if you cancel the finalizing process of the DVD-RW (➡ page 125).

- **Do not start copying to a DVD-R/RW when programmed recording is scheduled to begin shortly.**

Copying entirely to a DVD-R/RW will take 1 hour and a half (variable depending on the contents). (This does not include time for "Writing Test". This option requires more time. Actual time for "Writing Test" depends on the contents to test, and may be longer than the playing time of the contents if the disc contains too little contents or too many quality and picture settings, etc.)

If a start time of a programmed recording comes during this procedure, the recording is made onto the HDD. However, while making a menu theme, the recording is not executed. Also, programmed recordings to DVD media with "Off" setting of "Relay recording" (➡ page 185) are not executed.

If a programmed recording starts during this procedure, you cannot continue to make another disc after completion of the first disc.

- **Ensure the compatibility of a disc.**

Refer to the ➡ page 9.

- \* Discs made by this procedure will comply with the DVD-Video standard. However, it is not guaranteed to play properly on all DVD video players (including TOSHIBA products).

Depending on the disc, there may be a difference of data capacity between DVD-R and DVD-RW. It may be possible that contents you have just recorded onto a DVD-R cannot be recorded onto a DVD-RW. (DVD-RW capacity may be smaller.)

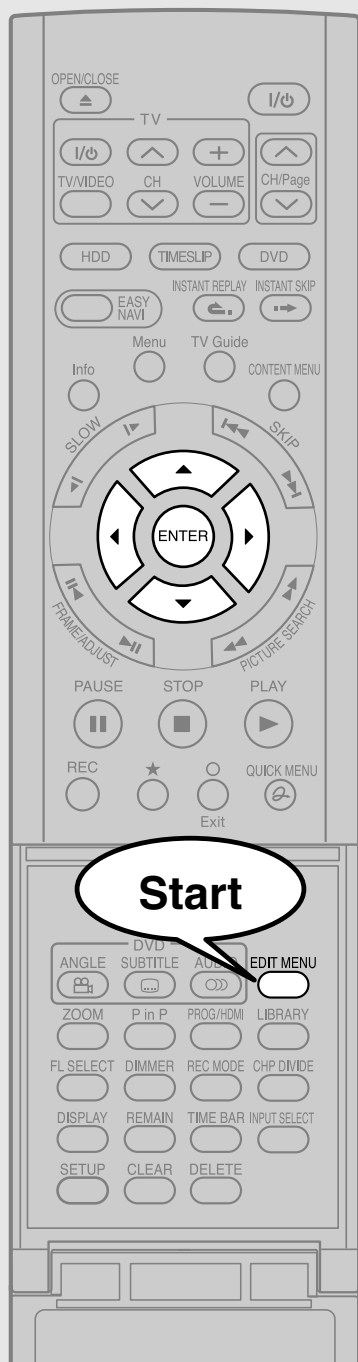
- **Follow the instructions on handling of the disc.**

## ■ Preparation

- Record contents which you want to copy to DVD-R/RW disc to make DVD-Video, to the HDD with the following settings:
  - "DVD compatible mode" (➡ page 184): "Main" or "SAP".
  - Bit rate of 4.0 or more.
- Load a new DVD-R/RW disc. (Follow the instructions on handling of the disc.)
- Press HDD button to select the HDD mode.

## Notes

- If you recorded a title while setting "DVD compatible mode" (➡ page 184) to "Off" or you used another recorder to record a title in a DVD-RAM disc, and you want to copy such a title to a DVD-R/RW to create a DVD-Video, first set "DVD compatible mode" to "Main" or "SAP" then execute the procedure of "Rate conversion dubbing for multiple parts" (➡ page 108).
- Depending on the disc, DVD-R 4x speed compatibility may be disabled.

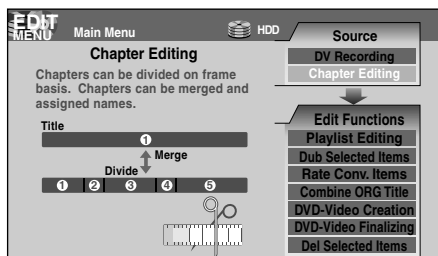


# 1 Press EDIT MENU.

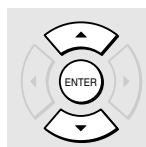


"EDIT MENU Main Menu" appears.

e.g.

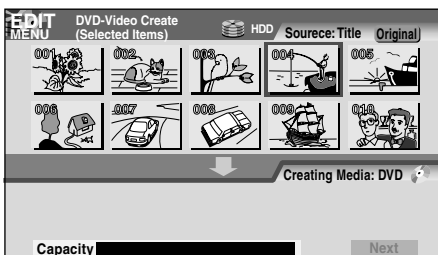


# 2 Press ▲ / ▼ to select "DVD-Video Creation", then press ENTER.



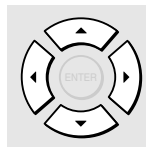
"EDIT MENU DVD-Video Create (Selected Items)" appears.

e.g.



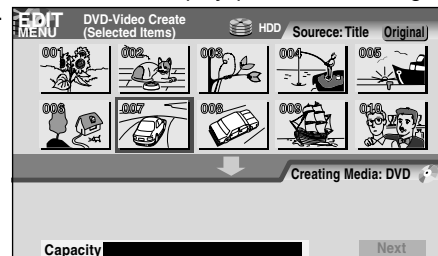
Thumbnails of titles on the HDD are displayed in the upper area.

# 3 Press ▲ / ▼ / ◀ / ▶ to select a part (a title or chapter) to copy to a DVD-R/RW disc.

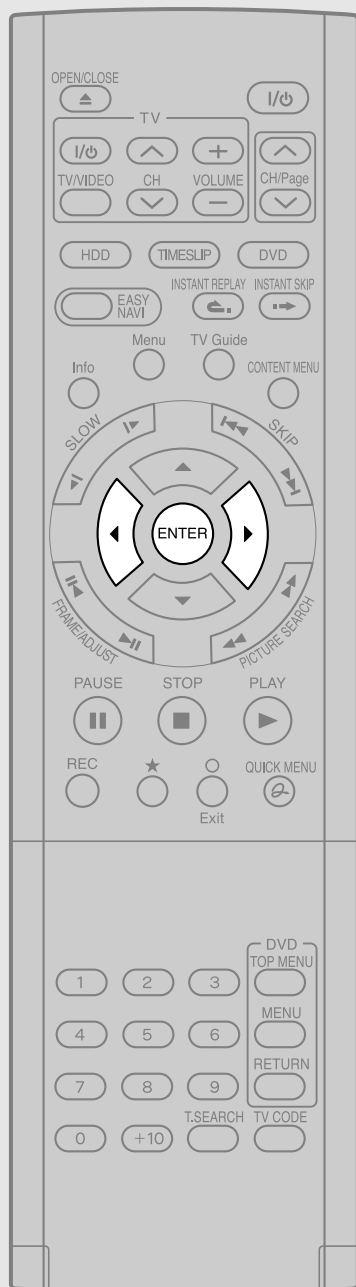


- To go to the preceding or following page, press PICTURE SEARCH button.
- To select a chapter, first select the title that contains the chapter you want, then press ★ button. To return to the title display, press ★ button again.

e.g.



(Continued)

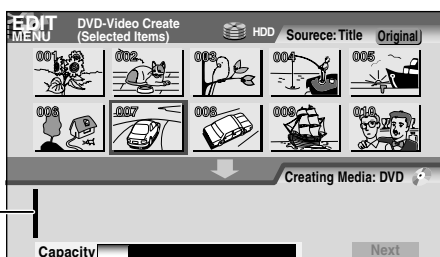


## 4 Press ENTER.



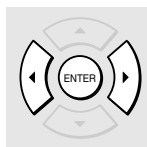
A cursor appears in the lower area (destination media).

e.g.



Cursor

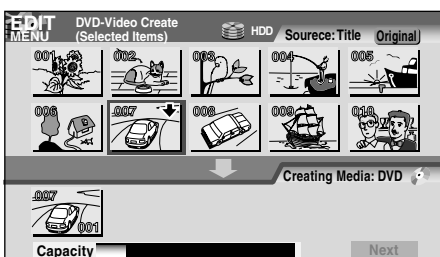
## 5 Press ◀/▶ to select a location to place the selected part, then press ENTER.



If there are no parts in the lower area, leave the cursor to the left and press ENTER button.

The selected part is inserted into the location of the cursor.

e.g.

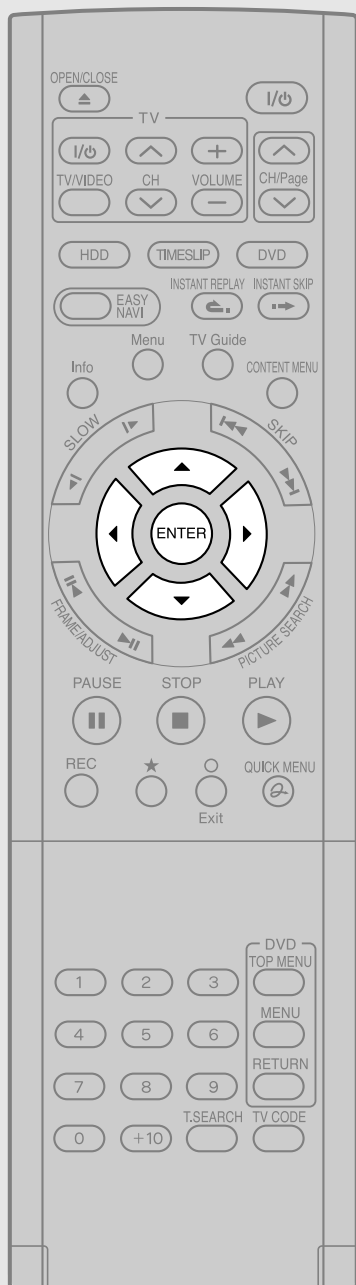


## 6 Repeat steps 3 to 5.

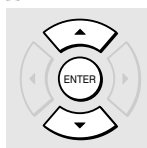
You can check the available volume of a DVD-R/RW on the bar at the bottom of the menu.

Each of the assembled parts is recorded onto the destination media as a title.

- To cancel selected parts see ➡ page 120.
- To change the title/chapter name or thumbnail before selecting:
  - 1) Select the part that you want to change, and press QUICK MENU button.
  - 2) Press the ▲ / ▼ buttons to select "Edit title name" or "Modify title thumbnail" to change the title, or "Edit chapter name" or "Modify chapter thumbnail" to change the chapter, and press ENTER button.
  - 3) Use the entry screen to change the title or chapter name. To change a title thumbnail or a chapter thumbnail, see the steps on ➡ page 126.

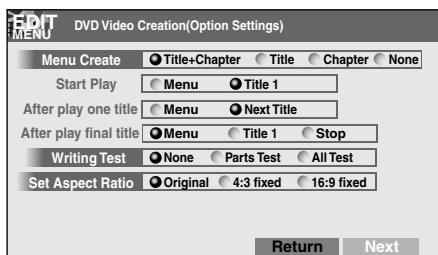


## 7 Press ▲ / ▼ to select “Next”, then press ENTER.

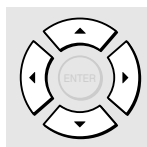


A screen is displayed to select options.

e.g.



## 8 Press ▲ / ▼ / ◀ / ▶ to set the items.

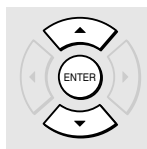


For the instruction of setting, see the description shown at selection.

- When you have selected “Parts Test” or “All Test” for “Writing Test”, extra time is required for pre-writing test. “All Test” requires more time than “Parts Test”.

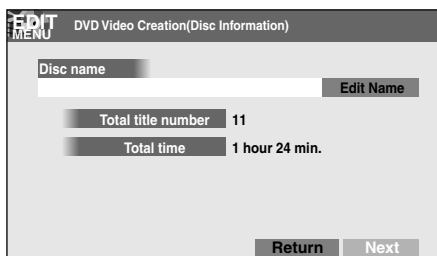
If you select “None” for “Menu Create”:  
The setting of “Start Play” and “Start after playing one title” is skipped automatically.

## 9 Press ▲ / ▼ to select “Next”, then press ENTER.



A screen is displayed to confirm the information you are going to write.

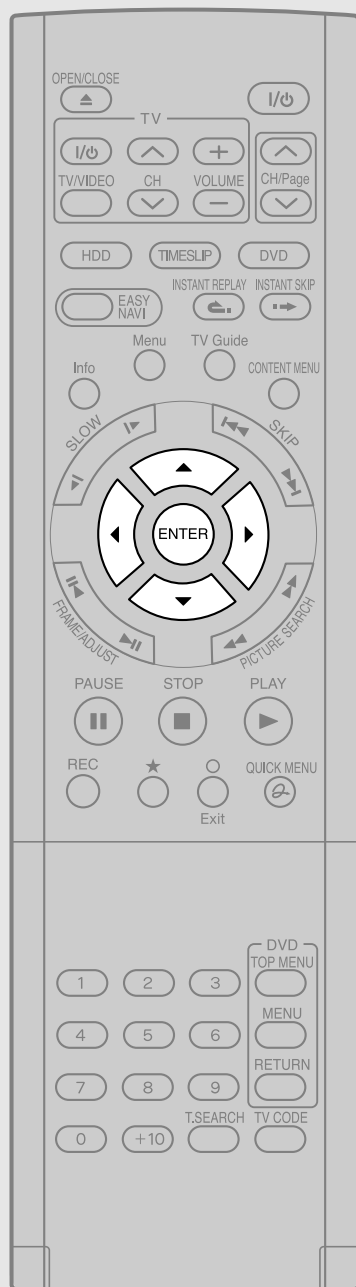
e.g.



Press ▲ button to select “Edit Name” and press ENTER button to go to the character entry screen. The number of characters is limited for the disc name you can enter.

If you selected “None” for “Menu Create” at step 8, select “Writing” on the bottom right corner, and press ENTER button. Skip to step 14.

(Continued)



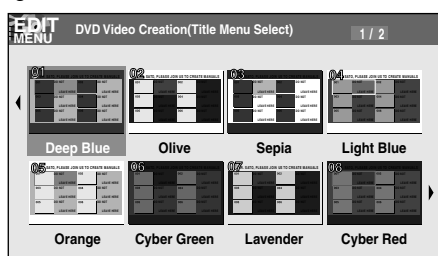
## 10 Press ▼ to select “Next”, then press ENTER.



A display of title menu selection appears if “Menu Create” is set to “Title+Chapter” or “Title” at step 7.

To view your captured images (➡ page 119), go to the next page.

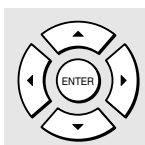
e.g.



If you press ★ button, you can preview the selected menu. To return, press O button.

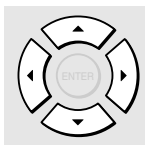
While displaying a preview screen of your captured image, you can access the other menu to correct color (➡ page 119) by pressing ★ button.

## 11 Press ▲ / ▼ / ◀ / ▶ to select the menu, then press ENTER.



If you have set “Menu Create” to “Title+Chapter” or “Chapter” at step 7, a screen is displayed to select a chapter menu.

## 12 Press ▲ / ▼ / ◀ / ▶ to select the chapter menu.

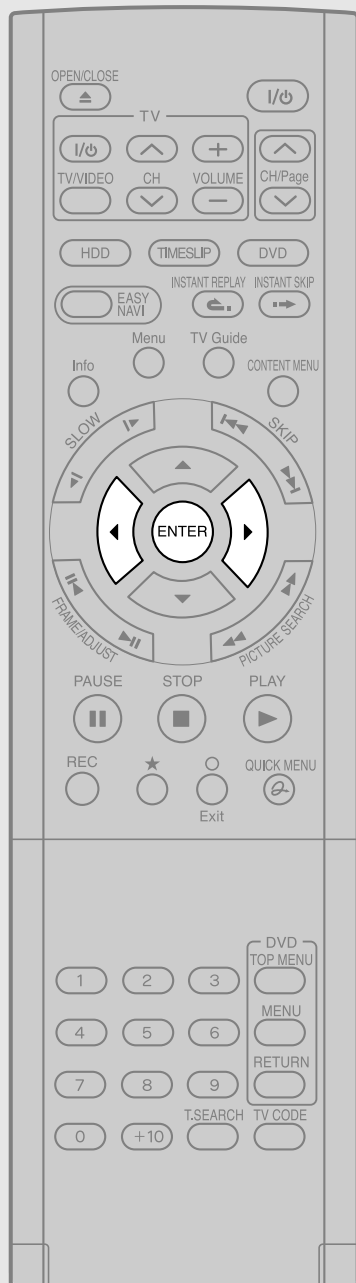


The selected menu is set for all chapters. You cannot set it for each chapter individually.

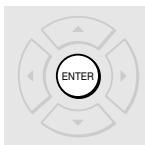
If you press ★ button, you can preview the selected menu. To return, press O button.

If you press ▼ button to select “Return” while previewing and press ENTER button, you will return to the preview of the title menu. To go back to the chapter menu, press ▲ / ▼ / ◀ / ▶ button to select a number next to “Chapter Menu” on the bottom center.



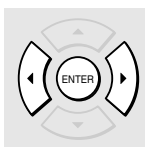


## 13 Press ENTER on “EDIT MENU DVD-Video Creation (Chapter Menu Select)” display.



A confirmation message is displayed.

## 14 Press ◀/▶ to select “Yes”, then press ENTER.



The current broadcast picture appears and dubbing starts. The progress is displayed on the screen and in the front panel display on the recorder.

When copying is completed, a finalizing process follows. This enables the disc to be played on a DVD video player.

When the process is completed, a message “Create another DVD-Video now?” appears (except when “Auto power off” (see below) is set). If you select “Yes”, you can make one more DVD-R/RW of the same content. If you select “No”, you can complete creating the DVD-Video.

- You can set the recorder to turn off automatically when the job finishes.
  - During the job, press QUICK MENU button.
  - Press ▲/▼ buttons to select “Auto power off”.
  - Press ENTER button.

**Notes**

- The number of titles that you can write on a DVD-R/RW disc is limited (99 titles. Each title should have 99 chapters or less). If you have a large number of titles or chapters, you may not be able to write due to the limitation of the DVD specifications. Also, even if the number of titles and chapters is within the limit, you may not be able to write if you have a large number of menu items.
- Due to standard differences, the number of chapters and their position may change slightly after DVD-Video creation. (For chapters generated on a DVD-R/RW disc, the same thumbnail for the Original chapter is displayed.)
- Due to standard limitation, a DVD-R/RW disc may contain unnecessary scenes after creation.
- If you select items of various types of video outputs, aspect ratios or other properties, or if you select an item recorded with different settings, they may be divided into titles. (For titles generated on a DVD-R/RW disc the same thumbnail for the Original title is displayed).
- Content based on a complicated Playlist or composed of too many items may not be copied properly.
- Copy-once permitted contents cannot be copied to a DVD-R/RW disc, even if they are recorded onto the HDD while "DVD compatible mode" is set to "Main" or "SAP" (➡ page 184).
- Content recorded on a recorder other than this recorder (including TOSHIBA products) cannot be copied to a DVD-R/RW disc using High Speed Dubbing. First set "DVD compatible mode" to "Main" or "SAP" and record them onto the HDD. Then perform "Rate conversion dubbing for multiple parts" (➡ page 108) to copy to the HDD.
- When a content is recorded with manual rate 1.0 Mbps or 1.4 Mbps and is including a 16:9 picture shape scene, the DVD creation of the content may fail. In this case, set "Set Aspect Ratio" to "4:3 fixed" on the menu ("Option Settings").
- Even if the title is recorded with "DVD compatible mode" set to "Main" or "SAP", using a recorder other than this may cause failure when recording to a DVD-R/RW disc.
- If the DVD-Video creating fails to be completed, most of the discs cannot be used again.
- If an error occurs while a DVD-Video is created, the error code "ERR-\*\*" (\*\* indicates the error code) is shown in the front panel display of the recorder. (➡ page 193) To clear this display, press DISPLAY button.
- There may be a difference between a specified thumbnail of menu in the DVD-Video creation procedure and the one on displayed in CONTENT MENU.

**■ Selecting the items displayed on the menu**

You can hide items on the menu if necessary.

**To hide a disc name**

Leave "Disc Name" blank. Display the on-screen keyboard and press CLEAR button to delete letters, then press ★ button to save.

**To hide a page number**

Leave "Disc Name" blank. Follow the above method.

**To hide a disc name and show a page number**

Enter one more space in "Disc Name".

**To hide a title/chapter name**

On CONTENT MENU or a display of item selection, select a title/chapter and display the on-screen keyboard from Quick Menu. Erase all characters of the name.

You can hide a time also using the same manner.

- "Chapter 0001" . . . on CONTENT MENU means that the chapter is given no characters as its name. Such a chapter does not show the name on the menu.
- A chapter menu shows the title name at the top right corner. If you hide the title name, no character appears in this area.

**To hide a title/chapter name and show a time**

Enter one more space and save it as the title/chapter name.

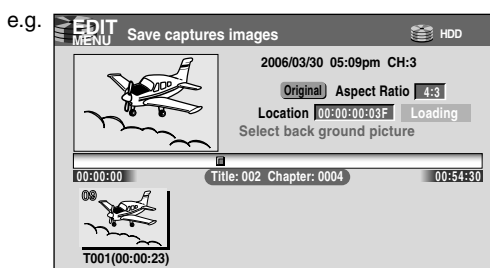
**Note**

- You cannot hide items other than above.

## ■ Using a favorite scene as a menu

You can select favorite scenes from the recorded contents and use them as menus of DVD-Video Created (▶ page 116) DVD-R/RW.

- 1) Press **CONTENT MENU**.
- 2) Press **▲ / ▼ / ◀ / ▶** to select a title which contains a scene to use as menus.
- 3) Press **QUICK MENU**.
- 4) Press **▲ / ▼** to select "Save captured images".
- 5) Select a scene.  
Locate a scene using the buttons such as **PLAY**, **SLOW**, **FRAME** or **PAUSE**, etc.
- 6) Press **▲ / ▼** to select "Loading" and press **ENTER**.



### Notes

- You cannot capture copy-protected contents.
- The maximum number of pictures which can be saved varies depending on the data size.

## ● To name a captured image

Press **▲ / ▼ / ◀ / ▶** to select an image to name then press **QUICK MENU**. Press **▲ / ▼** to select "Enter DVD-Video menu name" then press **ENTER**.



The on-screen keyboard appears.  
Enter a name.

## ● To delete a captured image

Press **▲ / ▼ / ◀ / ▶** to select an image to delete then press **QUICK MENU**. Press **▲ / ▼** to select "Delete menu" then press **ENTER**. Follow the message to operate.

To delete all captured images, select "Delete all menus".

## ■ Selecting color options on menus

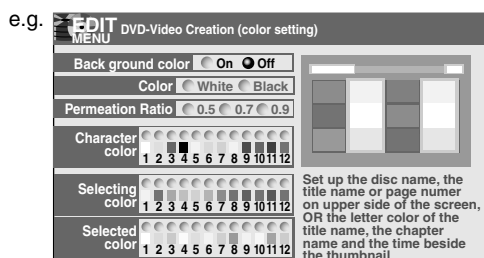
Several options are available: a translucent background for better legibility, character color and cursor color selections.

- 1) At step 10 (▶ page 116), go to the next page and select a captured image by **▲ / ▼ / ◀ / ▶**, then press **★**.

The preview screen appears.

- 2) Press **★**.

A color setting display appears.



- 3) Set each item by **▲ / ▼ / ◀ / ▶**, referring to the guidance on the right half of the display, finally press **○** to exit.

The preview screen returns.

● **To improve legibility of characters on menus**

Press ▲ / ▼ / ◀ / ▶ to set "Back ground color" to "On". Then select "Color" ("White" or "Black") according to the menu's tone, and set "Permeation Ratio", which sets the how translucent the selected Back ground color is. The higher the ratio, the Back ground color will be more translucent but the lower legibility of characters.

● **To change the character color**

Press ▲ / ▼ / ◀ / ▶ to select from 12 colors. When you select "White" back ground color, dark color should be a better choice.

● **To change the cursor color**

"Selecting Color" is a color for the moving cursor. "Selected Color" is one for the press of ENTER button.

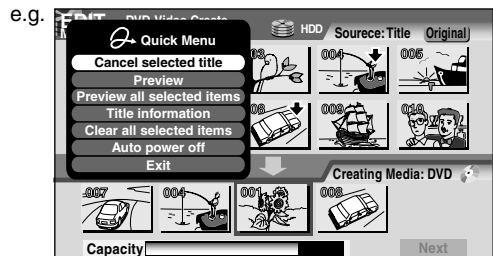
● **To preview your selections**

Press O button to return to the preview screen. If you correct your selections, repeat steps 2) and 3) (➡ page 119).

■ **Canceling selection of an item**

- 1) Press ▲ / ▼ / ◀ / ▶ to select an item then press **QUICK MENU**.

Quick Menu appears.



- 2) Press ▲ / ▼ to select "Cancel selected title" (or "Clear all selected items" for canceling selection of all items at a time).

- 3) Press **ENTER**.

The selected item disappears.

■ **Changing the location of an item**

Follow the procedure above to cancel selection of the item, then repeat steps 3 to 5 to re-insert the item in a desired location (➡ page 113, 114).

■ **Confirming the content in the lower area**

Select an item and press **QUICK MENU**. Then press ▲ / ▼ to select "Preview" and press **ENTER**.

**Notes**

- Each time an item is selected, its name appears at the bottom of the screen.
- You can also confirm the content by selecting "Title information" from Quick Menu.

■ **Canceling dubbing process**

Press **QUICK MENU** to display the Quick Menu. Press ▲ / ▼ to select "Stop creating DVD video", then press **ENTER**.

**Notes**

- If you cancel creating DVD-Video on a DVD-R disc, the disc will become unusable in most cases.
- Canceling is not always possible.

### ■ If a message appears while selecting a part

You may receive a message, such as "Selection of Writing Test in the next option setting is recommended to check whether Aspect Ratio coexists". If a copy-prohibited content is included, or if the aspect ratio is changed meanwhile, cancel the selection. If you are not sure, select Writing Test ("Parts Test" or "All Test").

#### Note

- Depending on selection or condition of items, copying may result in failure. If a message appears, be sure to, prior to step 7, press QUICK MENU button. Then press ▲ / ▼ buttons to select "Cancel selected title", and press ENTER button. If you do not do this and continue the copying process, an error may occur and the disc will be rendered useless.

### ● Playing a created DVD-Video

You can play the DVD-R/RW in the same manner as you would play a DVD video disc.

See ➡ page 66.

### ■ If you want to correct the contents of a DVD-RW after the DVD-Video creation procedure

Cancel the finalization of the DVD-RW (➡ page 125). It is possible only on DVD-RW recorded on this recorder.

After canceling, you can delete titles. However, you cannot re-use the whole disc, since only the last title can restore the disc space.

### ■ If you want to delete all contents of a DVD-RW after the DVD-Video creation procedure

Load the DVD-RW into the recorder and initialize it, then execute the procedure of DVD-Video creation (➡ page 112).

# DVD-Video finalizing process

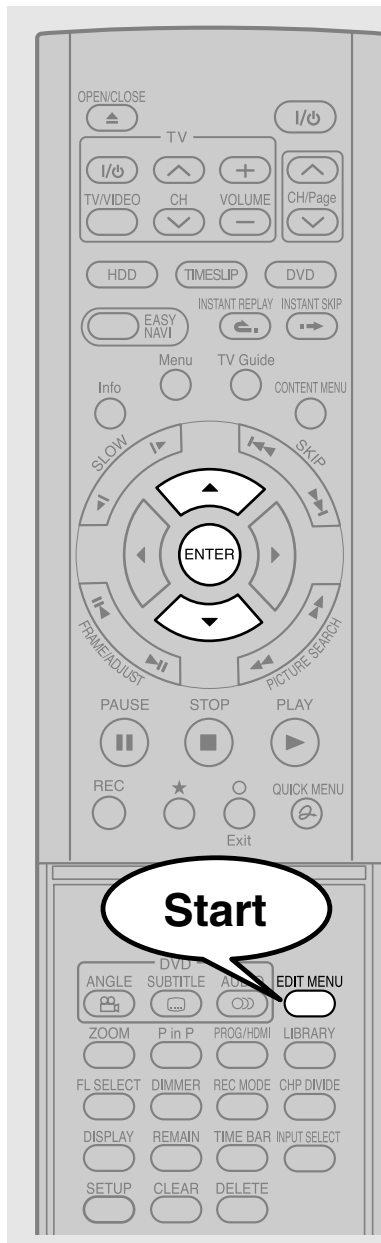
The recorder processes recorded data in a DVD-R/RW disc so that it can be played on other compatible devices.

## Important

- You cannot rewrite data onto a disc after you execute the DVD-Video finalizing process. However, the disabled rewritability of a DVD-RW disc can be restored by canceling the process of the disc (➡ page 125). On DVD-R discs, canceling of the DVD-Video finalizing process is not available.
- Canceling of the DVD-Video finalizing process is available only on DVD-RW recorded or copied contents on this recorder.

## ■ Preparation

- Press DVD button to select the DVD mode.
- Load a DVD-R/RW disc you want to execute the finalizing process.

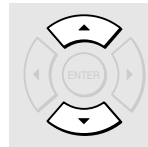


## 1 Press EDIT MENU.

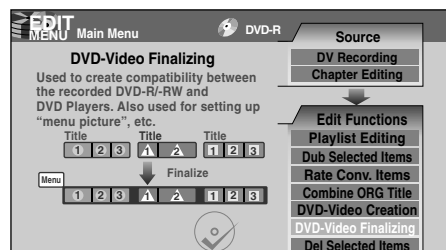


"EDIT MENU Main Menu" appears.

## 2 Press ▲ / ▼ to select "DVD-Video Finalizing".



e.g.

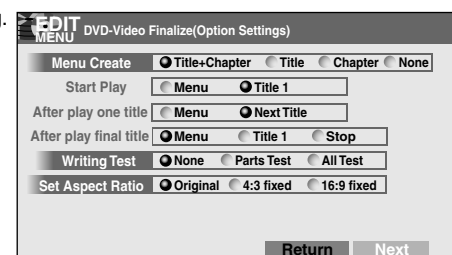


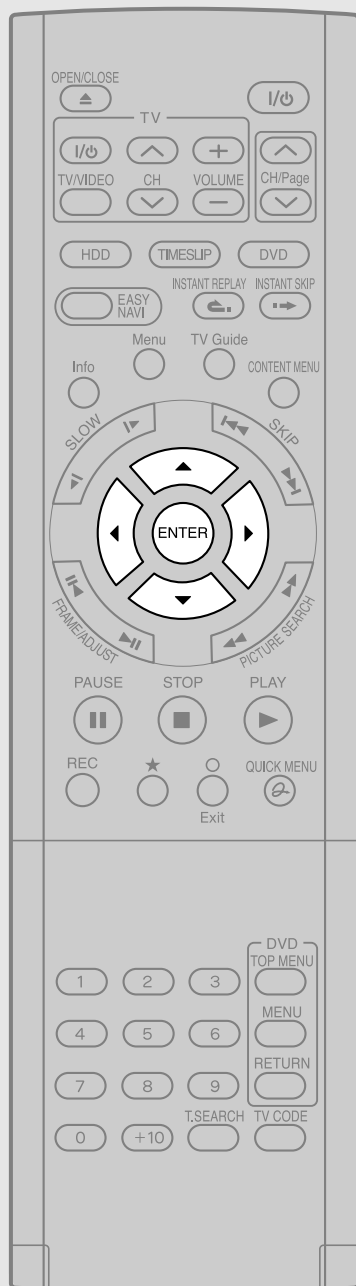
## 3 Press ENTER.



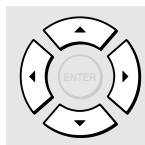
A display of option settings appears.

e.g.





## 4 Press ▲ / ▼ / ◀ / ▶ to select.

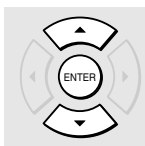


As you select each item, its function is explained.

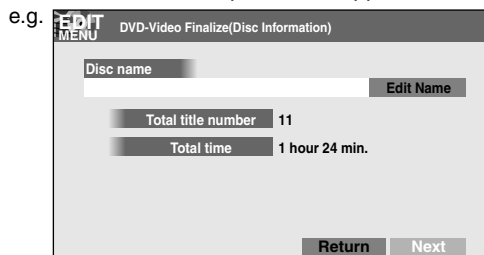
When “Menu Create” is set to “None”:

“Start play” and “After play one title” are automatically omitted.

## 5 Press ▲ / ▼ to select “Next”, then press ENTER.



Information on data to be processed appears.



If you press ▲ button to select “Edit Name” then press ENTER button, a keyboard appears so that you can enter a title name.

When “Menu Create” is set to “None”:

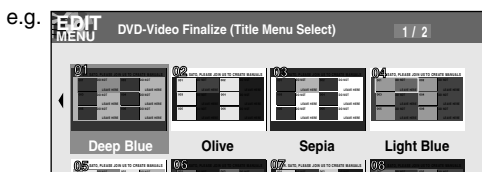
Select “Writing” at the right bottom by ▲ / ▼ / ◀ / ▶ buttons and press ENTER button. Skip to step 10.

## 6 Press ▼ to select “Next”, then press ENTER.



When “Menu Create” is set to “Title+Chapter” or “Title”, a display of title menu selection appears.

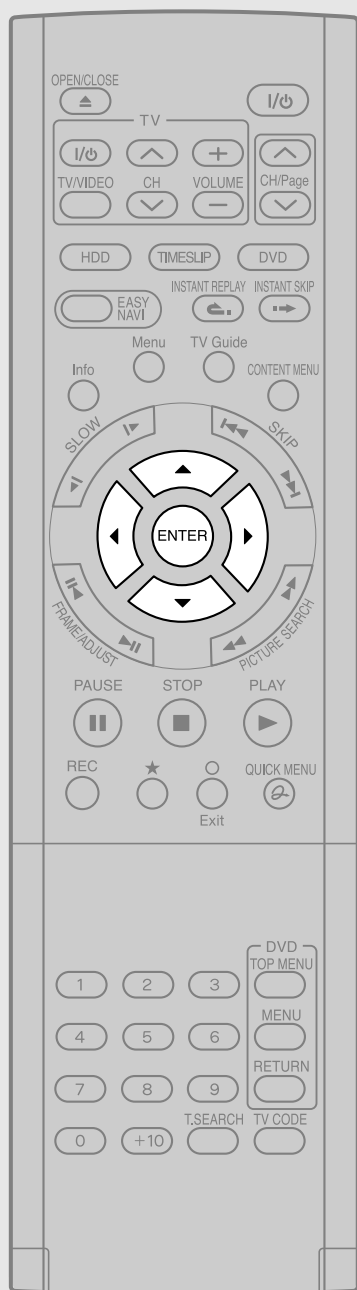
To view your captured images (➡ page 119), go to the next page.



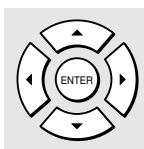
If you press ★ button, you can preview the selected menu. To return, press O button.

While displaying a preview screen of your captured image, you can access the other menu to correct color (➡ page 119) by pressing ★ button.

(Continued)

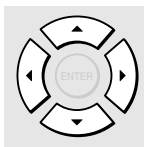


## 7 Press ▲/▼/◀/▶ to select the title menu, then press ENTER.



A display of chapter menu selection appears if “Menu Create” is set to “Title+Chapter” or “Chapter” at step 3.

## 8 Press ▲/▼/◀/▶ to select the chapter menu.

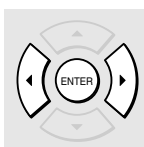


A selected menu is applied to all chapters. You cannot allocate a menu to each chapter.

If you press ★ button, you can preview the selected menu. To return, press O button.

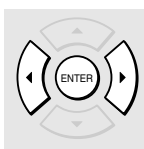
If you press ▼ button during preview, to select “Return” then press ENTER button, you can go to the preview of the selected title menu. To return to the preview of chapter menu, press ▲/▼/◀/▶ buttons to select a number next to “Chapter Menu” then press ENTER button.

## 9 Press ENTER on “EDIT MENU DVD-Video Finalize (Chapter Menu Select)” display, and select “Yes” by ▲/▶, then press ENTER.



A message appears to ask you if you want the power to turn off automatically or not when the process is completed.

## 10 Press ▲/▶ to select “Yes” or “No” then press ENTER.



A message disappears and the finalize process starts. The progress is displayed on the screen and in the front panel display on the recorder.



### Notes

- DVD-R/RW discs recorded on this recorder may not be recognized on other devices unless you execute DVD-Video finalizing process to them.
- You can record onto a DVD-R disc additionally to the limit of the disc capacity, unless you execute the DVD-Video finalizing process to it. Deleting of recorded titles is also possible, however, the disc space cannot be restored.
- You can record additional content onto a DVD-RW disc additionally to the limit of the disc capacity unless you execute the DVD-Video finalizing process to it. Deleting of recorded titles is also possible, however, the disc space can be restored only by the volume of the title last recorded.
- On DVD-RW discs, it is possible to cancel the DVD-Video finalizing process or to initialize for a new use.
- If a start time of a programmed recording comes during a finalizing process, the recording is made onto the HDD. However, while making a menu, the recording is not executed. Also, when "Relay recording" is set to "Off" the recording will not start.

### ■ To cancel the finalize process **DVD-RW**

You can cancel the DVD-Video finalizing process executed to a DVD-RW disc so that the disc can be recordable again.

#### 1) During stop, press QUICK MENU.

A quick menu appears.

#### 2) Press ▲ / ▼ to select "Disc management" then press ENTER.

#### 3) Press ▲ / ▼ to select "Cancel finalization" then press ENTER.

#### 4) Read the message, and press ◀ / ▶ to select "Yes", then press ENTER.

The process starts.

### Notes

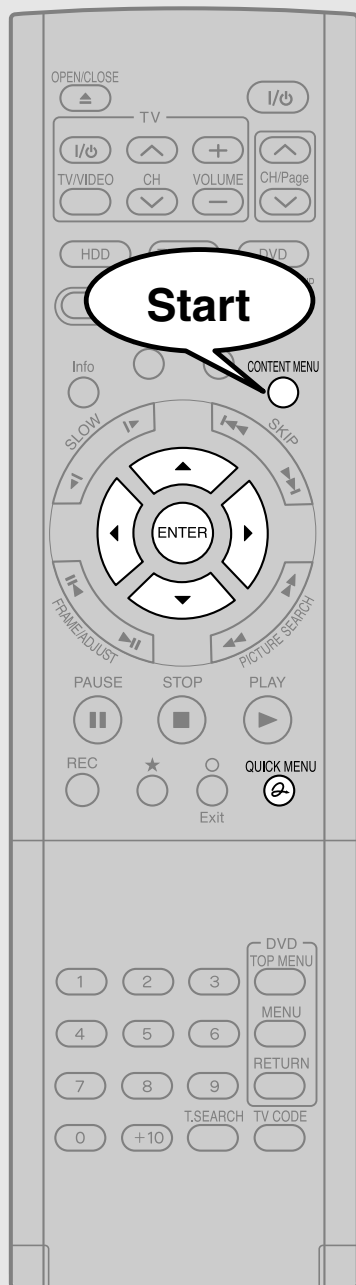
- While the recorder is ready to start a programmed recording, you cannot cancel the DVD-Video finalizing process.
- You cannot cancel the DVD-Video finalizing process executed on a DVD-RW disc recorded on other device.
- You cannot cancel the DVD-Video finalizing process executed on a DVD-RW disc if the disc is protected.
- Canceling the DVD-Video finalizing process may shift the thumbnails of titles/chapters.

# Other editing functions

## Changing the picture on CONTENT MENU

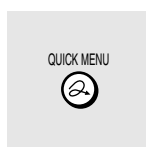
HDD DVD-RAM DVD-RW DVD-R

You can register your favorite scene as a thumbnail displayed on CONTENT MENU.  
On a finalized DVD-R/RW disc, this feature is not available.



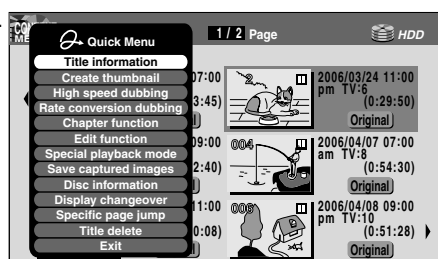
**1** Press **CONTENT MENU**, then press **▲/▼/◀/▶** to select a title.

**2** Press **QUICK MENU**.

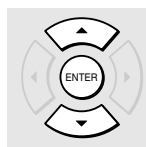


Quick Menu appears.

e.g.

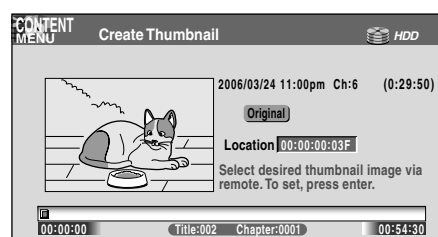


**3** Press **▲/▼** to select “Create thumbnail” (or “Create CHP thumbnail” if selected a chapter at step 1), then press **ENTER**.



“CONTENT MENU Create Thumbnail” appears.

e.g.





## 4 Press PLAY to start playback.

PLAY



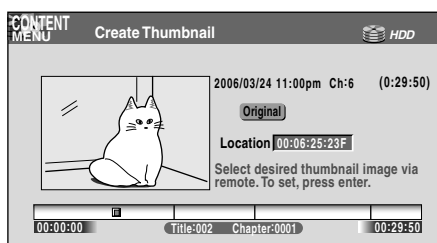
Locate a scene you want to capture as a thumbnail.  
You can use the following buttons.  
PICTURE SEARCH, FRAME, SLOW, SKIP, PAUSE, etc.

## 5 At the point where you want to capture a thumbnail image, press PAUSE.

PAUSE



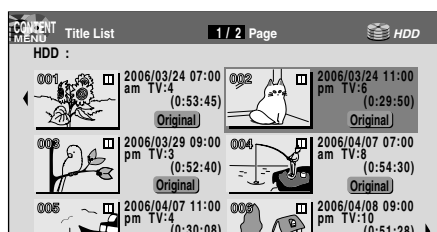
e.g.



## 6 Press ENTER.

CONTENT MENU returns. The selected scene is displayed as a thumbnail.

e.g.

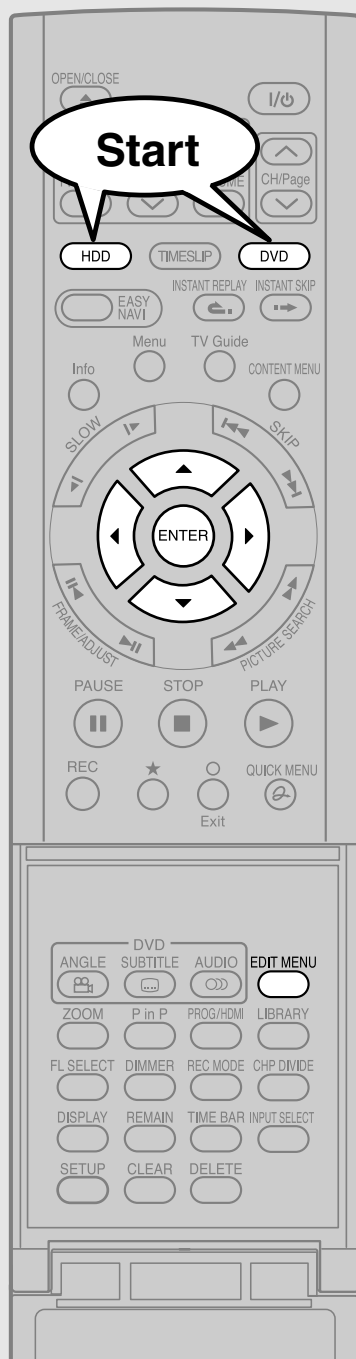


### Notes

- There may be a small difference between a thumbnail made on the Create Thumbnail display and that displayed in CONTENT MENU. Operation with PICTURE SEARCH button may extend the difference.
- You cannot create thumbnails of chapters in a title that contains a still picture.
- If you create a chapter thumbnail, and then shift the chapter mark (▶ page 90) or record or edit the disc on other devices, the chapter thumbnail may return to the top of the chapter.

## Combining two titles (Original) into one HDD DVD-RAM

Use this feature to combine two titles into one. The second title is deleted as the second title is added to the end of the first title.



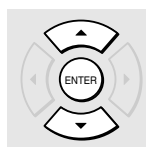
**1** Press **HDD** or **DVD** to select a disc that contains titles or chapters you want to merge.

**2** Press **EDIT MENU**.



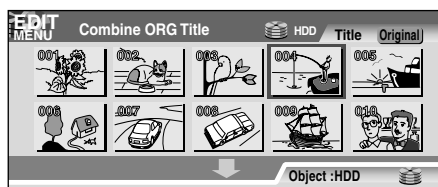
"EDIT MENU Main Menu" appears.

**3** Press **▲ / ▼** to select "Combine ORG Title", then press **ENTER**.

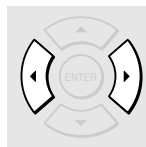


"EDIT MENU Combine ORG Title" appears.

e.g.



**4** Press **◀ / ▶** to select the first title to merge.

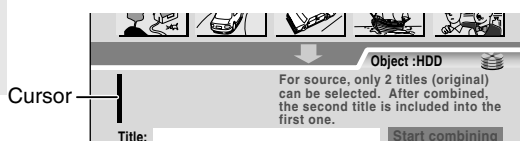


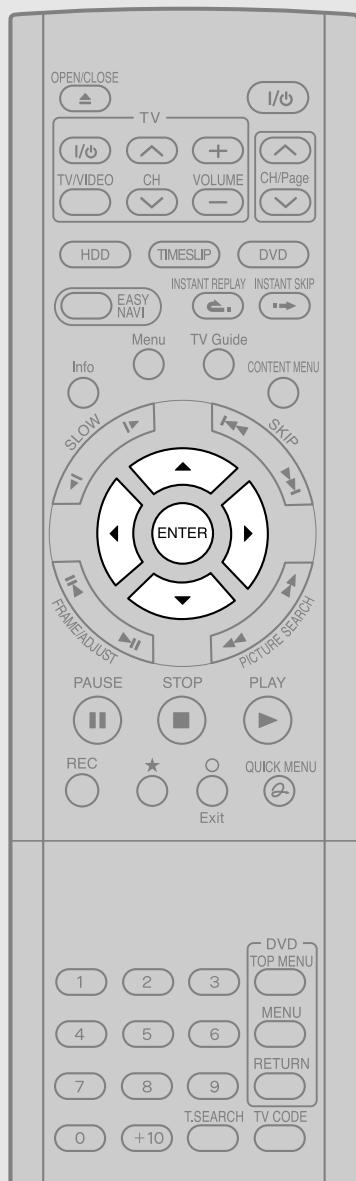
Press **PICTURE SEARCH** button to move to the previous or next page.

**5** Press **ENTER**.

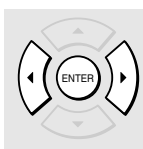


The cursor appears in the lower area of the screen (the title to merge to).



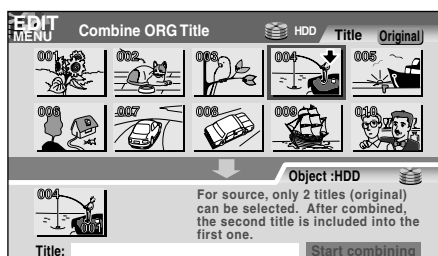


## 6 Press ◀/▶ to select the location to put the part and press ENTER.



It is fixed at the left side at the beginning. Press ENTER button. The selected part moved into the location of the cursor.

e.g.



## 7 Perform steps 4 to 6 and select the second title.

You cannot select the same title.

To cancel the registered part:

- 1) Select the part that you want to cancel, and press QUICK MENU button to display the Quick Menu.
- 2) Press ▲/▼ buttons to select "Cancel selected title" (or "Clear all selected items" for cancelling the selection of multiple items at a time).
- 3) Press ENTER button.

## 8 Press ▲/▼ to select "Start combining" and press ENTER, then select "Yes" and press ENTER.



The combining process starts.

### Notes

- You cannot stop the combining process after it has started.
- You cannot combine titles if their length will exceed 9 hours.
- You cannot combine a protected title or a title containing still pictures.
- The title name of the first title is given to the title after combining.
- The second title is combined into the first title, maintaining the chapter divisions and chapter names.
- Titles and chapters show their names for about 2 seconds at the bottom of the screen when they are selected.



# Library

To facilitate your collecting.

- **Using Library data**
- **Searching for a desired title**
- **Viewing Library data**
- **Checking remaining space**

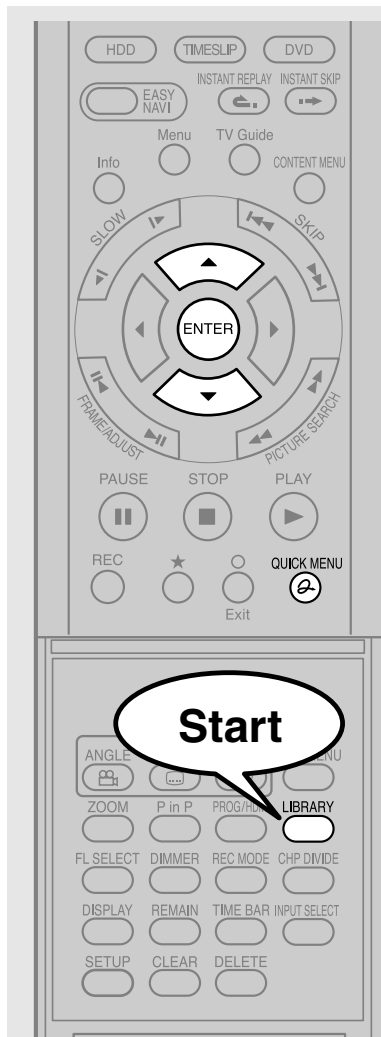
# Using Library data

The recorder has a “Library Management” database which memorizes various properties of recordings made on this recorder, including date, media, title, genre, etc. Using this database, you can search for desired or available discs.

You can utilize Library data as follows.

- To search for a DVD-RAM disc that contains a desired title.
- To check or change information of a title or disc.
- To check the remaining space of a DVD-RAM disc.

## Basic operation of the Library system



### 1 Press LIBRARY.



“LIBRARY MENU Title Summary (All Titles)” appears.

e.g.

Library Title Summary (All Titles)						
No.	Date	Day	Time	CH	Genre	Title Name
HDD 2006/03/26	Su	7:00 pm	5			2006/03/26 07:00pm ...
HDD 2006/03/25	Sa	11:00 pm	4			2006/03/25 11:00pm ...
HDD 2006/03/24	Fr	7:00 pm	3			2006/03/24 07:00pm ...
HDD 2006/03/23	Th	9:00 pm	3			2006/03/23 09:00pm ...

### 2 Press QUICK MENU.

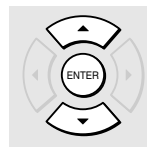


Quick Menu appears.

e.g.

Quick Menu						
	CH	Genre	Title Name			
DVD space remaining	pm 5		2006/03/26 07:00pm ...			
Title information	pm 4		2006/03/25 11:00pm ...			
Arrange	pm 3		2006/03/24 07:00pm ...			
Narrowing	pm 3		2006/03/23 09:00pm ...			
Jump	pm 2		2006/03/19 11:00pm ...			
Disc information	pm 4		2006/03/19 09:00pm ...			
Library management	pm L1		2006/03/17 09:00pm ...			
Exit	pm L1		2006/03/15 09:00pm ...			

### 3 Press ▲ / ▼ to select an item, then press ENTER.



For details on each item, see from the next page.

#### Notes

- To cancel this procedure, press LIBRARY button.
- The Library system does not support DVD-R/RW discs.
- Selecting a title on “LIBRARY MENU Title Summary (All Titles)”, and pressing ENTER button begins playback of the title if the disc containing the title is loaded.
- For proper function of the Library system, use DVD-RAM discs that shows a statement on its package such as “This disc can copy images that permit copying once.” If you use a DVD-RAM disc without such a statement, and then operate it on other device, the library data of the disc may not function properly.
- LIBRARY MENU may not display all characters of a registered name of a disc.



# Searching for a desired title

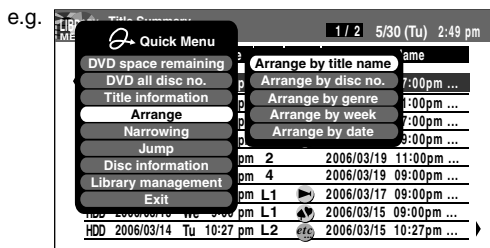
From the "LIBRARY MENU Title Summary (All Titles)", you can select a title by using ▲ / ▼ buttons. If you change the listing order or sort the titles, search may be easier.

## Changing the listing order

### Arrange

- 1) From Quick Menu, select "Arrange" by ▲ / ▼ then press ENTER.

The submenu appears.



- 2) Press ▲ / ▼ to select the listing order, then press ENTER.

Titles are arranged in selected order.

### Note

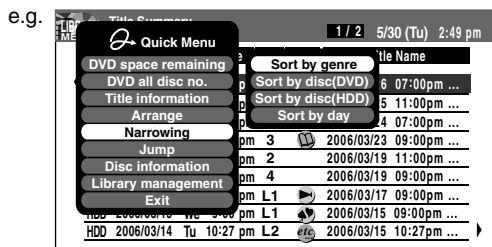
- If you repeat the selection of different types of the listing order, the old one precedes the new one. For example, when you select "Arrange by genre" then "Arrange by disc no.", the order of genre is produced in the order of disc number.

## Searching

### Narrowing

- 1) From the Quick Menu, select "Narrowing" by ▲ / ▼ then press ENTER.

The sub menu appears.



- 2) Press ▲ / ▼ to select a narrowing condition, then press ENTER.

### Sort by genre

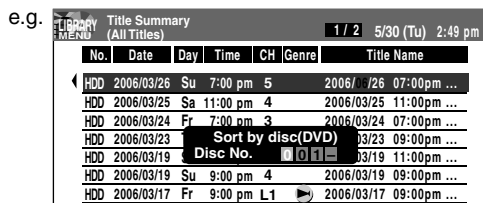
The submenu appears.

Press ▲ / ▼ buttons to select a genre, then press ENTER button.

Titles within the selected genre are sorted.

### Sort by disc(DVD)

An input window appears.



Follow steps 1) and 2) below.

- 1) Press ◀ / ▶ to select a location, then press ADJUST or ▲ / ▼ to enter the disc number.

- 2) Press ENTER.

Titles in the specified disc are sorted. For example, if you enter "001-", titles in discs 001, 001A and 001B are listed.

### Sort by disc(HDD)

Titles in the HDD are sorted.

### Sort by day

The submenu appears.

Press ▲ / ▼ buttons to select the day, then press ENTER button.

Titles recorded on the selected day are listed.

### Notes

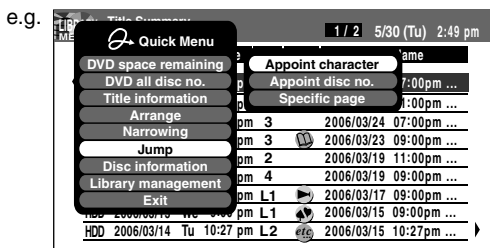
- Press O button to go back to the display for the previous narrowing condition.
- If you want to display all titles, press QUICK MENU button, then press ▲ / ▼ buttons to select "Cancel narrowings" and press ENTER button.

## Searching for a desired title (Continued)

## Jumping

## Jump

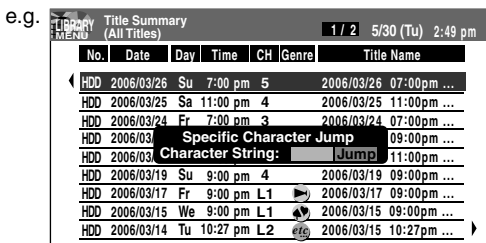
- 1) From the Quick Menu, select “Jump” by ▲ / ▼ then press ENTER.  
The submenu appears.



- 2) Press ▲ / ▼ to select the jump method, then press ENTER.

## Appoint character

An input window appears.



Perform steps 1) to 3) below.

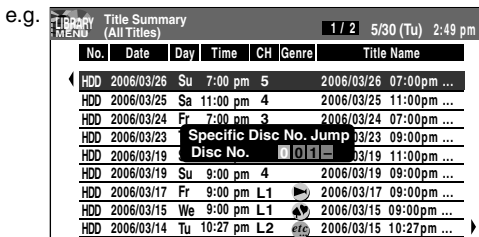
- 1) Put the cursor on the input area and press ENTER.  
The on-screen keyboard appears.
- 2) Enter the first characters (up to 3 characters) of the title you are looking for.
- 3) Press ► to select “Jump” and press ENTER.  
The title that starts with the specified characters is selected.

## Note

- The input window of “Specific Character Jump” can be shifted by pressing ▲ / ▼ buttons.

## Appoint disc no.

The on-screen keyboard appears.



Perform steps 1) and 2) below.

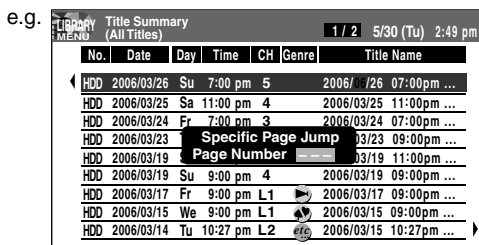
- 1) Press ◀ / ▶ to select the position to enter and press ADJUST or ▲ / ▼ to enter the disc number.  
Input 3 digits, and, if necessary A or B of disc. If you input “-”, you can leave the digit and the lower unspecified to search. For example, when “1 0 -” is input, titles of disc number such as 100, 100A, 102 are searched, and a title list starting from the first found one appears. It is recommended that you execute “Arrange by disc no.” beforehand.

- 2) Press ENTER.

The titles of the selected number disc are displayed.

## Specific page

An input window appears.



Perform steps 1) and 2) below.

- 1) Press ▲ / ▼ or ADJUST to enter the page number.
- 2) Press ENTER.  
The selected page is displayed.

# Viewing Library data

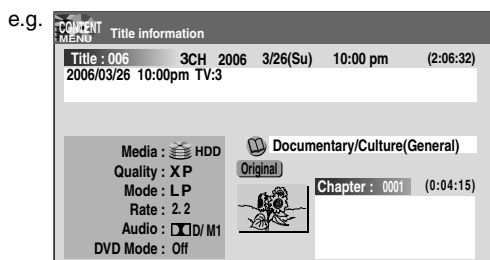
This section explains how to check and maintain the Library data.

## Viewing title information

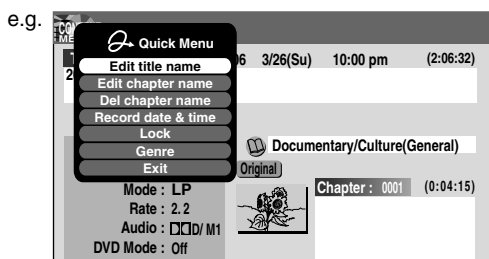
### Title information

- 1) From Quick Menu, select "Title information" by ▲ / ▼ then press ENTER.

You can view information about the selected title.



You can do the following operations with Quick Menu. (Press QUICK MENU button to display Quick Menu. Press ▲ / ▼ buttons to select an item and press ENTER.)



"Edit title name":

The on-screen keyboard appears.

Following the procedure on ➡ page 36, enter a new name for the title.

"Edit chapter name":

(Press PICTURE SEARCH (◀▶) button to display the chapter that you want to put a name for, and select the chapter.)

The on-screen keyboard appears.

Following the procedure on ➡ page 36, enter a new name for the chapter.

"Del chapter name":

(Press PICTURE SEARCH (◀▶) button to display the chapter that you want to put a name for, and select the chapter.)

"Record date & time":

The cursor moves to the date so that you can correct it.

"Lock"

Set the protection for the currently selected title. The protection icon "🔒" appears.

"Genre":

The submenu appears.

Press ▲ / ▼ buttons to select a genre, then press ENTER button.

A name of the selected genre and the icon appear.

**Note**

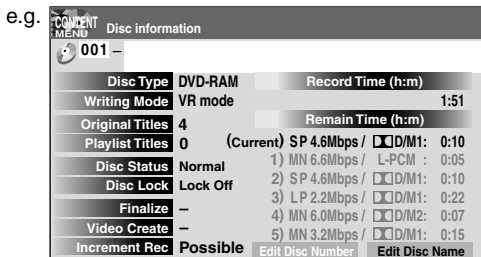
- When you change settings of a DVD-RAM disc, load the DVD-RAM disc.

## Viewing disc information

### Disc information

- 1) From Quick Menu, select "Disc information" by ▲ / ▼ then press ENTER.

You can view information about the loaded disc.



To change the number or name of the DVD-RAM disc:

- 1) Press ◀ / ▶ to select "Edit Disc Number" or "Edit Disc Name", then press ENTER button.
- 2) Following the procedure on ➡ page 36, enter a new name for the disc.

To change the disc number, press ADJUST button.

## Maintenance of Library data

The recorder usually controls the Library database system automatically. However, in the following cases, you must maintain and create data manually.

- **When you want to add information about a title**, (for example **when you use a DVD-RAM disc recorded on another device, etc.**), to the Library system of the recorder.  
→ “Registering a disc manually” (➡ page 136).
- **When the Library database memory is full.** (Up to 3000 entries can be registered. When you reach this limit, a message will appear and further additions to the Library database will be rejected. Erase unnecessary data to make space.)  
→ “Erasing unnecessary data” (➡ page 137).
- **When you want to rearrange the whole Library information from the beginning.**  
→ “Deleting all the Library information only” (➡ page 137).
- **When you save the Library data in another DVD-RAM disc.**  
→ “Saving the Library data in a DVD-RAM disc” (➡ page 138).
- **When you import saved Library data back into the recorder.**  
→ “Re-installing the backup data” (➡ page 138).

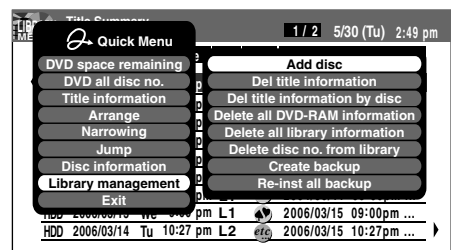
### Note

- Save your Library data on a DVD-RAM disc. Importing Library data replaces all current database information in the recorder, including any data added after you saved the data onto a DVD-RAM disc.

## ■ Registering a disc manually

- 1) Load a DVD-RAM disc that contains information you want to add.
- 2) Press **LIBRARY**.
- 3) Press **QUICK MENU**.
- 4) Press **▲ / ▼** to select “Library management”, then press **ENTER**.  
A submenu appears.

e.g.



- 5) Press **▲ / ▼** to select “Add disc”, then press **ENTER**.
- 6) Press **◀ / ▶** to select “Yes”, then press **ENTER**.  
To cancel, select “No”.  
All title information is registered.

### Notes

- To use title information in a DVD-RAM disc recorded on another device, as the Library data of the recorder, be sure to follow the procedure of “Registering a disc manually” to add saved data to the Library system. This information cannot be added automatically.
- If you record content on a DVD-RAM disc on the recorder and edit the content on the other device, Library data of the disc may be lost or the disc may not function properly.
- Unless a DVD-RAM disc is registered to the recorder, information of current or future titles recorded on the disc, will not be registered.
- By registering a disc manually, several discs in same number consequently may be registered. In this case, the remaining time is displayed per disc or page. Execution of “Edit Disc Number” (➡ page 135) is recommended.

### ■ Erasing unnecessary data

When the Library database is full (3000 entries).→  
Select "Del title information".

- 1) Press **LIBRARY**.
- 2) Press **▲ / ▼** to select a title.
- 3) Press **QUICK MENU**.
- 4) Press **▲ / ▼** to select "Library management" then press **ENTER**.
- 5) Press **▲ / ▼** to select "Del title information", then press **ENTER**.
- 6) Press **◀ / ▶** to select "Yes", then press **ENTER**.  
Library data of the title selected in step 2) is erased.  
To cancel, select "No".

To delete information of all titles in the specified data  
→ Select "Del title information by disc".

- 1) Press **LIBRARY**.
- 2) Press **▲ / ▼** to select a title.
- 3) Press **QUICK MENU**.
- 4) Press **▲ / ▼** to select "Library management" then press **ENTER**.
- 5) Press **▲ / ▼** to select "Del title information by disc", then press **ENTER**.
- 6) Press **◀ / ▶** to select "Yes", then press **ENTER**.  
Library data of all titles in the disc you selected in step 2) is erased.  
To cancel, select "No".

### ■ Deleting all the Library information only

Use this feature when you want to rearrange the whole Library information from the beginning.

- 1) Press **LIBRARY**.
- 2) Press **QUICK MENU**.
- 3) Press **▲ / ▼** to select "Library management" and press **ENTER**.
- 4) Press **▲ / ▼** to select "Delete All DVD-RAM information" or "Delete all library information".  
**Delete all DVD-RAM information:**  
Deletes all Library information from a DVD-RAM disc, leaving the Library information on the HDD.  
**Delete all library information:**  
Deletes all Library information from the HDD and a DVD-RAM disc.
- 5) Press **ENTER**.
- 6) Press **◀ / ▶** to select "Yes" and press **ENTER**.

### ■ Forced deletion of disc numbers

A number of an inactive disc can be deleted from the Library Management, so that it can be assigned to a new disc.

- 1) Press **LIBRARY**.
- 2) Press **QUICK MENU**.
- 3) Press **▲ / ▼** to select "Library management", then press **ENTER**.
- 4) Press **▲ / ▼** to select "Del disc no. from Library", then press **ENTER**.
- 5) Press **ADJUST** to select a number to delete, then press **ENTER**.

#### Note

- Deleting a disc number also deletes data of all titles in the disc.

■ **Saving the Library data in a DVD-RAM disc**

- 1) Load a DVD-RAM disc to save the Library data.
- 2) Press **LIBRARY**.
- 3) Press **QUICK MENU**.
- 4) Press **▲ / ▼** to select “Library management”, then press **ENTER**.
- 5) Press **▲ / ▼** to select “Create backup”, then press **ENTER**.
- 6) Press **◀ / ▶** to select “Yes”, then press **ENTER**.  
To cancel, select “No”.

■ **Re-installing the backup data**

- 1) Load the DVD-RAM disc containing the Library database.
- 2) Press **LIBRARY**.
- 3) Press **QUICK MENU**.
- 4) Press **▲ / ▼** to select “Library management”, then press **ENTER**.
- 5) Press **▲ / ▼** to select “Re-inst all backup”, then press **ENTER**.
- 6) Press **◀ / ▶** to select “Yes”, then press **ENTER**.  
To cancel, select “No”.

**Note**

- Do not use a DVD-RAM disc which contains Library Management data registered to another recorder for backup data storage. Library Management format may vary depending on the model. Adding data of a new format onto the saved disc may prevent the data of the older format from being re-installed.

# Checking remaining space

You can check the remaining space of each disc prior to recording.

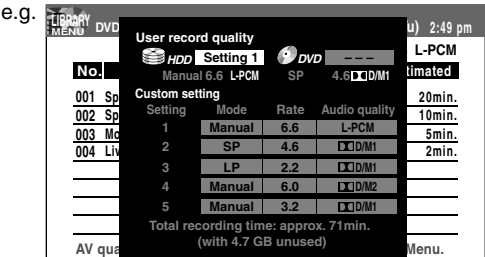
## Viewing a number and space of a disc

### DVD all disc no.

- 1) From the Quick Menu, select “DVD all disc no.” by ▲ / ▼ then press ENTER.  
You can view numbers, names and estimated remaining spaces about all the registered discs.

To recheck the remaining space for a different “User record quality” setting

- 1) Press QUICK MENU.  
Quick Menu appears.
- 2) Press ▲ / ▼ to select “User record quality” then press ENTER.



- 3) Press ADJUST and select the setting (➡ page 183).
- 4) Press ENTER.

### Note

- It is recommended that beforehand you select a desired title or disc by “arrange” selection then execute “DVD space remaining”, because the recorder lists the remaining space from the specified disc or the one which contains the specified title.

## Viewing remaining space

### DVD space remaining

- 1) From the Quick Menu, select “DVD space remaining” by ▲ / ▼ then press ENTER.  
You can view the recording titles and the estimated space remaining per disc.

### Note

- You can rearrange the list by selecting “Arrange”, “Narrowing” or “Jump” from Quick Menu.





# Network Navi

---

Operate the recorder with a PC.

- **What is Network Navi?**
- **Preparation for Network Navi**
  - 1: Connection to a PC
  - 2: Recorder's setup
    - Network Setting
  - 3: Setting up the PC
  - 4: Starting Network Navi
  - 5: Network Navi settings
- **Network Navi features**
  - Displaying thumbnails  
(Title List)
  - Operating with the remote  
control screen
  - Using Library information  
(Library)
  - Setting for custom menu addition  
(Custom Menu Editor)
  - Net Dubbing
  - Net Monitor
  - Setting a timer recording  
using email
  - If you are having a difficulty  
with Network Navi features...

# What is Network Navi?

Network Navi can operate and set the recorder using a web screen.

You need a PC that can be connected to the recorder with a Local Area Network (LAN).

If you have an always-on internet connection, you can use email to remotely set a timer recording.

## ● Main features of Network Navi

### ■ Editing titles using a PC

As in the "CONTENT MENU" of the recorder, this feature displays a list of content that were recorded on the internal HDD and DVD-RAM/R/RW. You can change general title information such as title names, chapter names and genres. (However, the information for a DVD-R/RW recorded by another device cannot be displayed or changed. The information on a finalized DVD-R/RW can be displayed but cannot be changed.)

### ■ Checking the library using a PC

This feature displays and sorts the recorder's "Library" information. It searches for a DVD-RAM which has empty space or desired disc by using stored information for each title such as disc number, recorded time and date, title name, and genre.

### ■ Saving the DVD-Video menu background from a PC

This feature allows you to save your favorite image from a PC to the recorder and use it as the menu background.

### ■ Setting a timer recording using email

This feature allows you to remotely set a timer recording using email.

### ■ Operating the recorder from a PC

This feature allows operation of the recorder from a PC.

### ■ Streaming content to the PC

(Net Monitor)

### ■ Dubbing content to another

Network Navi recorder on the network (Net Dubbing)

## ● Flow of Network Navi setting

e.g.: Using Network Navi and a PC with an always-on internet connection (A connection of Network Navi to a PC with an always-on internet connection is recommended.)

**Please read the information on operation, restrictions, and the disclaimer. (➡ page 143 - 144)**

You will need to understand the content and agree to the terms.

You understood the content and agreed to the terms!

Setting up the Network Navi system.

- Connection to a PC (➡ page 145 - 146)
- Recorder's setup - Network Setting (➡ page 147 - 149)
- Starting Network Navi (➡ page 152)
- Network Navi settings (➡ page 153)

**Use Network Navi ! (➡ page 154 - )**

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

## ● Operating environment

The recorder complies with the 802.3 standard of IEEE (Institute of Electrical and Electronic Engineers). The following environment is required to use the Network Navi features. Please check these conditions before connecting to a PC.

### ■ PC

- OS: Windows® 2000/XP  
Mac OS X (10.4)
- Color monitor: 16-bit color or greater, 800 x 600 resolution or greater
- Required device: LAN port (100 Base-TX/10 Base-T)

### ■ WWW browser

- For Windows® : Internet Explorer 6.0
- For Mac OS : Safari 2.0
- Operation cannot be guaranteed for versions beyond the above.

The installation of Java VM Ver. 1.5 (for Mac OS X: 1.4.2) is required to use Network Navi features. To obtain the latest Java VM, check the website of Sun Microsystems, Inc. at <http://www.sun.com/> (as of May 2005).

### ■ Network connection environment

Broadband always-on connection

### Note

- Operating environment may change without advance notice. In addition, all operations are not guaranteed.

## ● Terminology and trademarks

- Microsoft, Windows, and the Internet Explorer logo are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. Windows® 2000...Microsoft® Windows® 2000 Professional operating system Service Pack3 (SP3)
- Windows® XP...Microsoft® Windows® XP operating system
- The official name of Windows is Microsoft Windows Operating System.
- Macintosh, Mac, and Safari are trademarks of Apple Computer, Inc.
- The product names in this document may be used as trademarks or registered trademarks by each company.
- Java and all Java-based marks are registered trademarks or trademarks of Sun Microsystems, Inc. in the U.S. and other countries.

## ● Restrictions and disclaimers

Before using Network Navi, please read and understand the important information in “Operating environment” and “Restrictions and Disclaimers.”

### Restrictions and Disclaimers

- Network Navi features can only be used when the recorder is in an operational state (excluding the confirmation feature of timer recording setting via email while in standby mode). Network Navi features cannot be used to turn on the power for the recorder (except when “timer recording feature” and “Auto Power OFF” are set).
- Through connection to a PC, Network Navi features can be used to edit text information such as title names, chapter names, and program descriptions; change various settings; display thumbnails; and load background data contained in the DVD-Video menu. Obtaining, changing, and/or adding other information to content cannot be done.
- Network Navi features, which are used through a connected PC, are not for video replay and image and audio data loading, editing, writing, and file transfer.
- The included LAN cable (crossover cable) can be used to directly connect the recorder to a PC. For connection to a hub or router, use a separate, commercially available LAN cable (straight cable).
- Operating Environment
  1. OS (operating system): Windows® 2000/XP or Mac OS X (10.4).
  2. DOS/V compatible PC or Macintosh computer (LAN connector required).
  3. Internet browser: Internet Explorer (Windows®) or Safari (Mac OS).
- All of the following environmental conditions are required for using “Timer recording setting using email”.
  4. Always-on broadband internet connection.
  5. Email account that can send and receive mail from the installation location (using a POP server and SMTP server).
  6. Broadband router with hub (DHCP feature base is recommended).
- The communication features of this recorder comply with the Institute of Electrical and Electronic Engineers (IEEE) 802.3.
- Certain factors including, without limitation, the available bandwidth and quality of your internet connection, and the connection between the recorder and your PC, may cause a delay and/or error in the displaying of content on your PC. Such delays and/or errors, if any, may be more pronounced when the recorder is connected via a wireless LAN.
- Some Network Navi features may not be usable due to certain settings and/or restrictions set by the Internet service provider (ISP) supplying your broadband Internet connection.

(Continued)

**What is Network Navi? (Continued)**

- Any fees charged by an ISP including, without limitation, connection charges and email charges are your responsibility.
- If the broadband internet connection device (such as a Cable Modem or ADSL modem) specified by your ISP does not have a 10Base-T or 100 Base-TX LAN port, you will not be able to make a connection to the recorder.
- An ADSL modem is required to use ADSL service and a cable modem is required to use cable modem service. Depending on the access method of and subscriber agreement with your ISP, you may not be able to use the Network Navi features contained in this recorder or you may be limited to the number of devices you can connect at the same time.
- The use of a "Router" may not be allowed or its usage may be limited depending on the policies and restrictions of your ISP. For details, contact your SP directly.
- For "Timer recording setting using email" or "Timer recording setting by cell phone email," a separate email account is required that is connectable from your home, and compatible with POP3 or APOP. An email account that is not accessible from home, such as a cell phone email address, cannot be used in connection with this recorder and the aforementioned Network Navi features.
- An always-on broadband internet connection is necessary for the recorder to access the ISP's mail server via the same network. It is not necessary for a connected PC to be powered on for the recorder to be able to connect to the mail server.
- In some cases, a connected PC may be set to automatically receive email from a mail server and delete such email on the server at the time of its receipt, in which case, it is possible that a timer recording set via email may be deleted before the recorder receives it. In such case, it is recommended that you make the appropriate setting changes so that a copy of each incoming email remains on the server.
- To set a timer recording by email using a cellphone, use internet email. Email systems between cellphones, such as text messaging services, cannot be used to set a timer recording on the recorder.
- A webmail or web portal (incompatible with POP3) cannot be used to set a timer recording by email.
- Use a category 5, 10 Base-T/100 Base-TX LAN cable when connecting to a PC with a broadband always-on internet connection. Use the included crossover cable when connecting the recorder directly to a PC.
- Depending on the security software installed on a connected PC and the settings of such software, certain features contained in this recorder may not be usable.

**Note:** Toshiba is not responsible for any malfunction of the recorder and/or the Network Navi features due to communication errors/malfunctions associated with your broadband internet connection and/or your PC, or other connected equipment. In the event that any content intended to be recorded fails to be recorded and/or any content intended to be edited fails to be edited due to any of the aforementioned reasons, please contact your ISP and/or PC manufacturer.

# Preparation for Network Navi

Follow the procedures 1 to 4 to use Network Navi.

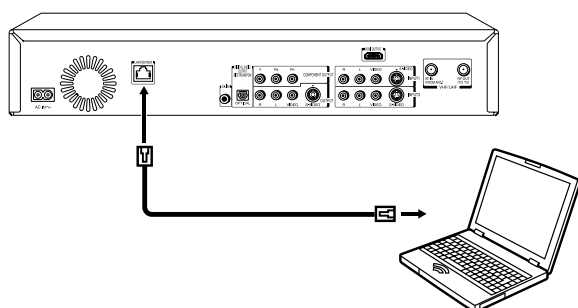
## 1: Connection to a PC

A PC with a LAN connection is required.

The main method for PC connection is either a direct connection or through a constant and continuous ("always-on") internet connection. Usable features differ depending on the connection method.

The features of "Network Navi" can be utilized fully only if the recorder is connected using a PC with an always-on internet connection and router.

### ■ Direct connection to a PC



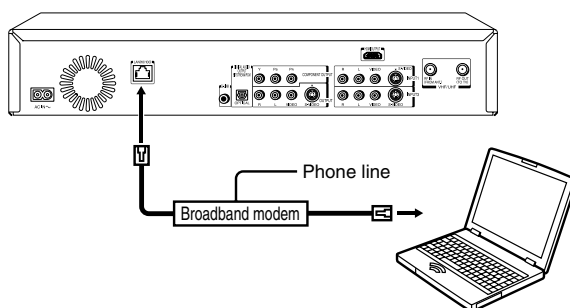
The following can be done from the PC

- Editing the title information (Title Thumbnail List)
- Checking the Library (Library)
- Setting the theme for menu screen (DVD-Video Tool)
- Operating the recorder (Virtual Remote Control)
- Streaming content to the PC (Net Monitor)

The following settings are required.

- Connecting to the PC (➡ page 146)
- Setting up the Network Setting (➡ page 147)
- Setting up the PC (➡ page 151)
- Starting Network Navi (➡ page 152)

### ■ Always-on internet connection with a PC



The following can be done from the PC

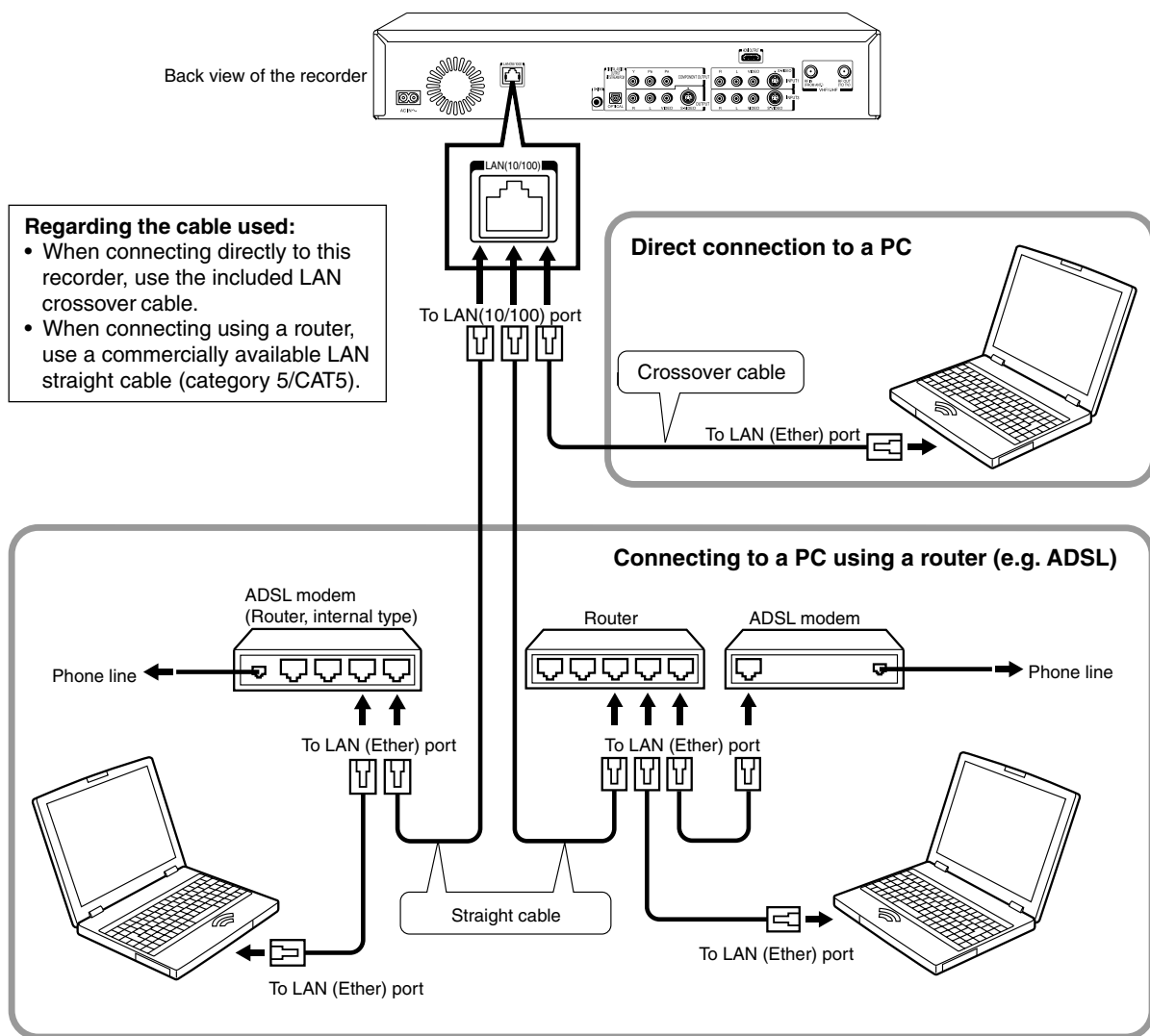
- Editing the title information (Title Thumbnail List)
- Checking the Library (Library)
- Setting the theme for menu screen (DVD-Video Tool)
- Operating the recorder (Virtual Remote Control)
- Streaming content to the PC (Net Monitor)

The following settings are required.

- Connecting to the PC (➡ page 146)
- Setting up the Network Setting (➡ page 147)
- Starting Network Navi (➡ page 152)
- Network Navi Settings (➡ page 153)

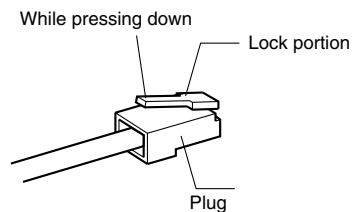
(Continued)

Preparation for Network Navi (Continued)



**Caution**

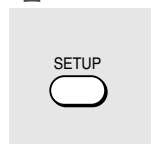
- When plugging or unplugging the LAN cable, switch off the power of the recorder and the PC.
- When plugging or unplugging the LAN cable, hold the plug portion of the cable.
- When unplugging, do not pull on the LAN cable but unplug while pressing down on the lock.
- Do not connect the modular phone cable to the LAN port.
- Since there are various connection configurations, please follow the specifications of your telecommunication carrier or internet service provider.



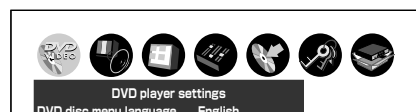
## 2: Recorder's setup - Network Setting



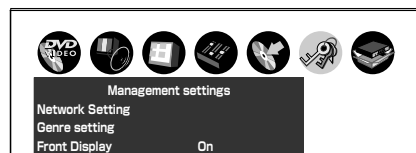
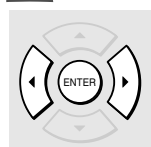
### 1 While stopped, press **SETUP**.



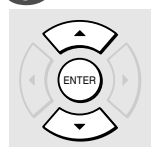
The setup screen will be displayed.



### 2 Select “Management settings” by **◀/▶**, and press **ENTER**.

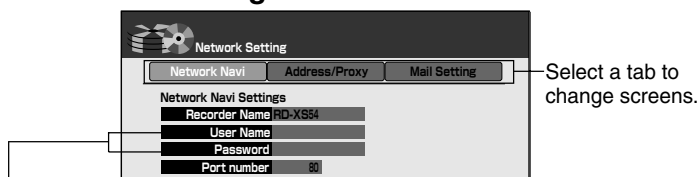


### 3 Select “Network Setting” by **▲/▼**, and press **ENTER**.



The “Network Setting” screen will be displayed.

### 4 Following the table on the next page, set each item on the “Network Navi”, “Address/Proxy” and “Mail Setting” screen.



“User Name” and “Password” must be entered to prevent unauthorized access. The username and password should be unique so that others cannot guess them easily. The setting cannot be completed unless the username and password are entered.

### 5 After the setting is completed, select “Save” and press **ENTER**.

The settings will be stored.  
Start the setup for the PC.

## Preparation for Network Navi (Continued)

**Note:** Toshiba recommends that you take the following minimum general security precautions in connection with choosing a User Name and Password in connection with the Network Navi features of the recorder:

- Choose a unique User Name and Password that would be difficult for someone else to guess (e.g., do not use the same password that you use for your email account, router, etc.).
- Do not share your User Name and Password with anyone.

## Items for setting (Network Navi screen)

## Network Navi Settings

Recorder Name	Up to 15 single-byte alphanumeric characters or symbols	Normally there is no need to change this setting. When multiple units of the recorder are connected, make changes for each unit.
User Name	Up to 16 single-byte alphanumeric characters or symbols	This is an ID to access the recorder from a PC. Select a username that is unique and not known to or easily guessed by others. (Example of usernames to avoid: your name or your family's name, telephone number, birth date, street number of address, and car license plate numbers, as well as repetition of the same number or symbol.)
Password	Up to 16 single-byte alphanumeric characters or symbols	This is a password to access the recorder from a PC. Select a password that is unique and not known to or easily guessed by others. (Example of passwords to avoid: your name or your family's name, telephone number, birth date, street number of address, and car license plate numbers, as well as repetition of the same number or symbol.) When the password is entered, the characters are displayed as " * ". If you forget the password, enter a new password.
Port Number	80	Normally there is no need to change this setting. When the connection cannot be made or a feature is not operating, change the value to a number between 2000 and 10000.

## Net Dubbing Settings

Request from another device	Accept	Select this setting when multiple Toshiba HDD & DVD video recorders are connected to the network and dubbing is done to and from various equipment.
	Reject	This will not allow dubbing through the internet.
Group Name	e.g.: TOSHIBA	This sets the group name when multiple units are connected to the network.
Group Password		This sets the password when a group name is set.

## Items for setting (Address/Proxy screen)

## When directly connecting to a PC

DHCP	Manual	Network information will be manually set.
IP Address	If the IP address of the PC is 192.168.1.10. e.g.: 192.168.1.15	This sets a different address within the same subnet of the PC connected to the recorder.
Subnet Mask	e.g.: 255.255.255.0	This sets the subnet mask of the network environment that will be connected.
Default Gateway	e.g.: 192.168.1.1	This is set when the recorder uses a gateway.
DNS	Manual	Fixed to "Manual" if "DHCP" is set to "Manual".
DNS Server	e.g.: 192.168.1.1	Manually enter the DNS server address.
Proxy Server		There is no need to set in this case.
Proxy Port	80	There is no need to change in this case.
MAC Address	(Unable to set)	The MAC address that is established for each recorder is displayed. It cannot be changed.
Connection Check*		It checks the connection of the recorder and the PC. Note: Please disregard the message regarding DNS server if it is displayed after "Connection Check" is pressed.

\* When "Connection Check" is pressed, items that were changed on the "Address/Proxy" and "Mail Setting" screens will be saved, and you will not be able to return to the previous setting. Keeping a record of the setting is recommended as a precaution.

**Note**

- Private IP address can be set. (e.g.: 192.168.1.1-192.168.1.254)

## When using a PC with an always-on internet connection and directly connecting via router

DHCP	Auto	This automatically obtains network information.
IP Address	(Setting unnecessary)	The IP address that is obtained from the DHCP server is displayed.
Subnet Mask	(Setting unnecessary)	The subnet mask that is obtained from the DHCP server is displayed.



Default Gateway	(Setting unnecessary)	The default gateway that is obtained from the DHCP server is displayed.
DNS, DNS Server	Auto	When "Use" is selected, the DNS server address is automatically obtained from the DHCP server.
	Manual	Manually enter the DNS server address.
Proxy Server	Up to 63 single-byte alphanumeric characters or symbols	Enter the proxy server address when your provider requires proxy setting.
Proxy Port	80	Normally there is no need to change this setting. When required, change the value to a number between 1 and 65535.
MAC Address	(Unable to set)	The MAC address that is established for each recorder is displayed. It cannot be changed.
Connection Check*		This checks the connection between the recorder and the router.

\* When "Connection Check" is pressed, items that were changed on the "Address/Proxy" and "Mail Setting" screens will be saved, and you will not be able to return to the previous setting. Keeping a record of the setting is recommended as a precaution.

#### Note

- Please contact the router manufacturer when the router DHCP feature is not operating properly (in such a case, an error will occur since the default gateway and the DNS server IP address cannot be obtained).

### Items for setting (Mail Setting screen)


Mail Function	Disable	This will disable the use of the mail function.
	Enable	This will enable the use of the mail function.
Mail Keyword	e.g.: rdstyle	This sets 6-20 single-byte alphanumeric characters so that the email for the mail function can be recognized. Symbols should not be used since they will cause error and timer recording setting by email will not be successful.
POP3 Server Address	e.g.: XXX.XXX.com	This sets the POP3 server address. (Enter up to 63 single-byte alphanumeric characters.)
POP3 User Name		This sets the username for accessing the POP3 server. Enter up to 63 single-byte alphanumeric characters.
POP3 Password		This sets the password for accessing the POP3 server. Enter up to 16 single-byte alphanumeric characters.
APOP	Enable	This enables the use of APOP (Authenticated POP*).
	Disable	This disables the use of APOP (Authenticated POP*).
Accept	Only	Only one email address is set as the sender.
	All	No specific email address is set as the sender.
From	e.g.: XXXXX@XXX.XXX.com	When "Accept" is set to "Only", enter the email address of the sender up to 63 single-byte alphanumeric characters.
Completion Notice	Disable	Email notification is not sent when timer recording setting by email is completed.
	Secondary Address	When timer recording setting by email is completed, notice is sent to the completion-notice contact address.
	Return to sender	When timer recording setting by email is completed, notice is sent to the email sender's address.
	Secondary Address and sender	When timer recording setting by email function is completed, notice is sent to both completion-notice contact address and the email sender's address.
SMTP Server Address	e.g.: XXX.XXX.com	This sets the SMTP server address.** Enter up to 63 single-byte alphanumeric characters.
Sender Address	e.g.: XXXXXXXX@XXX.XXX.com	This sets the email address of your internet provider's email service. Enter up to 63 single-byte alphanumeric characters.
Secondary Address	e.g.: XXXXXXXX@XXX.XXX.com	This sets the email address for sending notice when timer recording setting by email is completed. Enter up to 63 single-byte alphanumeric characters.

\* Depending on the recorder's operating mode, the timer recording setting may not be successful.


\* APOP: Password encrypting POP. For details, consult your ISP.

\*\* The address of "POP3 Server Address" will be copied if you leave here blank.

● Setting example - Sender of timer recording setting mail and receiver of completion notice





e.g.  
homeadd@yyy.zzz.com








e.g.  
mobileadd@yyy.zzz.com

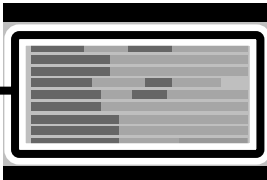
Timer recording  
setting mail from:

Completion notice  
received at:







  
Settings

Mail Function	Enable	Mail Keyword	abc1234
POP3 Server Address	yyy.zzz.com		
Accept	Only	From	homeadd@yyy.zzz.com
Completion Notice	Return to sender		
SMTP Server Address	yyy.zzz.com		
Sender Address	homeadd@yyy.zzz.com		
Secondary Address	Connection Check		

Select "Return to sender".

Mail Function	Enable	Mail Keyword	abc1234
POP3 Server Address	yyy.zzz.com		
Accept	Only	From	homeadd@yyy.zzz.com
Completion Notice	Secondary Address		
SMTP Server Address	yyy.zzz.com		
Sender Address	homeadd@yyy.zzz.com		
Secondary Address	mobileadd@yyy.zzz.com		
Connection Check	Connection Check		

Select "Secondary Address".

Mail Function	Enable	Mail Keyword	abc1234
POP3 Server Address	yyy.zzz.com		
Accept	Only	From	mobileadd@yyy.zzz.com
Completion Notice	Secondary Address and Sender		
SMTP Server Address	yyy.zzz.com		
Sender Address	homeadd@yyy.zzz.com		
Secondary Address	homeadd@yyy.zzz.com		
Connection Check	Connection Check		

Select "Secondary Address and Sender".

### 3: Setting up the PC

Settings for the PC will be different depending on the operating system. Please read the user's manual of your PC for details. The following instructions are for Windows® XP.

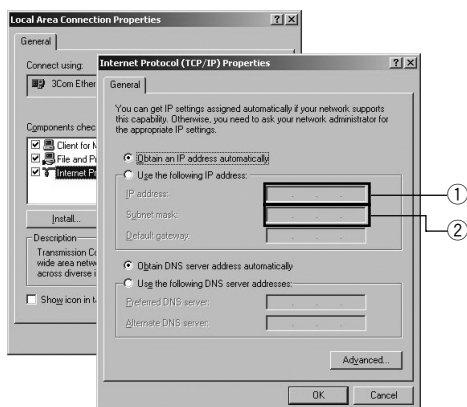
**When using the PC with an always-on internet connection, the setting is normally already at "Auto" (automatically obtained IP address). Therefore, no change in setting is required. Proceed to "4: Starting Network Navi". If "Network Navi" does not start, change the setting for the recorder according to the setting of the PC "TCP/IP properties".**

#### Setting up the PC (when directly connecting to the PC)

- 1 "Control panel" → "Network connections" → click "Properties" of "Local area connection" → click "Properties" of "Internet protocol (TCP/IP)".

Select "Use next IP address" to set the IP address and subnet mask.

When setting has been previously established, keeping a record of the original setting prior to any changes is recommended so that it can be changed back.



- 1 "IP address":

Set to 192.168.1.10.

(Set an IP address that should be different from that of the recorder.)

- 2 "Subnet mask":

Set to 255.255.255.0.

- 2 Click "OK" on the screen.

After clicking "OK", follow the instructions on the PC. It may be necessary to restart your PC.

Proceed to "4: Starting Network Navi".

#### Notes

- If you are connected to the internet, you may not be able to connect if you specify the IP address. Change to the original settings when connecting to the internet.
- When using Mac OS X, open "Apple Symbol" → "System environment setting" → "Network" → "TCP/IP". Set the setting method to "Manual input" and enter the IP address and subnet mask.

## 4: Starting Network Navi

Start Network Navi to set up/operate the recorder using a PC.  
The following instructions are for Windows® XP.

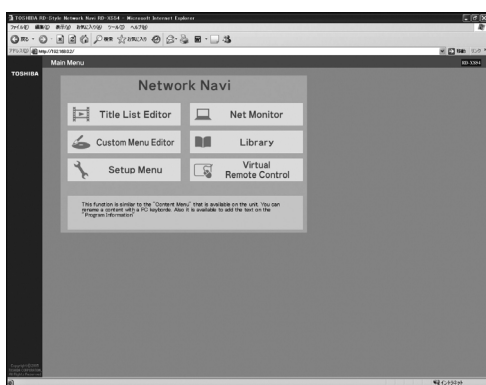
### 1 Launch the internet browser to start using the Network Navi on the PC.



Screen images of Windows® Internet Explorer are used as examples in this user's manual.

When the "Back" button on the browser is used to return to the previous page, the setting and display may not be set correctly.

### 2 Enter the address `http://RD-XS55`, and press the ENTER key of the PC.



For Mac OS X or when access cannot be made using the address with the recorder name, press **SETUP** on the remote control. Then enter the IP address on the "Network Setting" screen of "Management Settings" for the recorder instead of the recorder name. (e.g.: `http://192.168.1.15/`)

When the address is entered, the Main Menu will be displayed. A screen will be displayed for entering "User Name" and "Password" which were established during the network setup of the recorder. Enter the "User Name" and "Password". If you want to set your favorites or bookmarks in the browser, it should be done at this time.

### 3-A When connecting directly to the PC: Click the desired feature from the Main Menu.

### 3-B When connecting to the PC with an always-on internet connection: Click "Network Navi Settings" from the Main Menu.

Follow the instructions on the pages that follow to establish the settings.

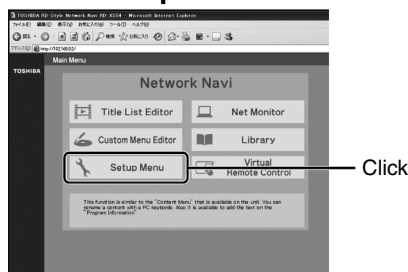
#### Notes

- For some routers, the assigned IP address may change frequently depending on DHCP.
- To check the IP address of the recorder using the router management software, find the assigned IP address that matches the MAC address displayed on the "Address/Proxy" screen of "Network Setting".
- If the "Port number" under "Network Setting" is set at a value other than "80", enter the "Port number" after the recorder name or IP address. (e.g.: For a port number of 2000, use `http://RD-XS55:2000/`.)
- If the proxy setting is made, accessing may fail.
- When the recorder is in operation, you might not be able to make the setting even if you can use the Network Navi.

## 5: Network Navi Settings

Settings for Network Navi features of the recorder.

### 1 Click “Setup Menu” on the Main Menu.



### 2 Click the item to be set and select the value or enter the data.

For the content to be set, see below.



### 3 Click “Save” after the setting is completed.

The settings are saved.



#### Note

- When there is a change in the environment of the destination, such as when connecting to the PC for the first time, redo the “Network Setting” (▶ page 147) on the recorder.

#### Set up for exporting CSV File Format

Program Description	Include	This allows program descriptions to be included when saving Library information to a CSV file.
	Exclude	This saves to a CSV file without program descriptions.

#### Other Settings

Upgrade page address	www3.toshiba.co.jp/dvd/mtn/	This sets the address of the maintenance service page, from which you can download update software of the recorder.
Access Port Number	Normally set to 1048 It can be set between 1048 and 1999.	When multiple units are used and the remote-control screen freezes in Internet Explorer or Netscape, change the numbers of each unit.

#### Net Monitor Settings

See ▶ page 164.

# Network Navi features

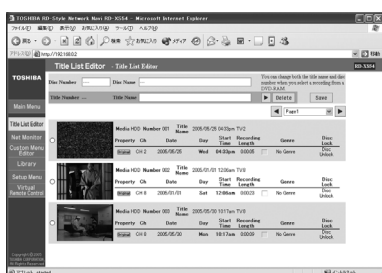
<b>Displaying thumbnails (Title List) .....</b>	<b>155</b>
<b>Operating with the remote control screen .....</b>	<b>157</b>
Net Keyboard .....	158
Operation using the Virtual Remote Control .....	159
<b>Using Library Information (Library) .....</b>	<b>160</b>
Finding the disc containing the title you want to view (Sorting Library information) .....	160
Viewing title information .....	160
Making file output of Library information to a PC .....	160
Displaying a list of remaining space by each disc number (Disc List) .....	160
<b>Setting for custom menu addition (Custom Menu Editor) .....</b>	<b>161</b>
<b>Net Dubbing .....</b>	<b>163</b>
Dubbing to a device on the same network .....	163
<b>Net Monitor .....</b>	<b>165</b>
<b>Setting a timer recording using email .....</b>	<b>168</b>
Setting a timer recording by directly specifying the date, time, and channel .....	168
Useful features of timer recording setting using email .....	169
<b>If you are having a difficulty with Network Navi features .....</b>	<b>170</b>

## Displaying thumbnails (Title List)

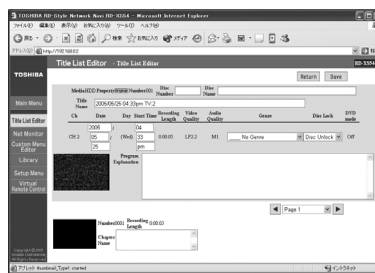
When the “Title List Editor” is clicked in the Main Menu, the thumbnails and information of the titles recorded on the HDD, DVD-RAM, or DVD-R/RW will be displayed. The title information such as the title names and genres can be changed\*. It will take some time for them to be displayed.

- \* A DVD-R/RW (Video Mode) that was recorded on another device cannot be displayed or changed.
- \* A finalized DVD-R/RW can be displayed but cannot be changed.

### 1 When the “Title List Editor” is clicked in the Main Menu, the thumbnails and information of the titles recorded on the internal HDD, DVD-RAM, and DVD-R/RW will be displayed.



To change pages, click “◀” or “▶” at the top of the window.



If you click on the thumbnail or “Title Name” of a title you want to change or view its information, the Chapter List screen will be displayed.

#### ■ Points on thumbnail display

Settings are the same as those on the list. When the recorder is in operation (such as in play mode), changes cannot be made.

(In the following situations, the thumbnails may become black or may not be displayed.)

- Recorder's operating mode (such as in play mode)
- Copy-once title and chapter thumbnails
- Title thumbnails and chapter thumbnails recorded on DVD-R/RW (Video mode)

A program which has never had a thumbnail display on the recorder will appear as a black screen on the PC and the thumbnail display will not be shown. In such a case, make changes to the thumbnail screen using the “Content Menu” on the recorder. (There are thumbnails which cannot be displayed.)

For a Macintosh computer, Chapter List will not be displayed even if the thumbnail is clicked.

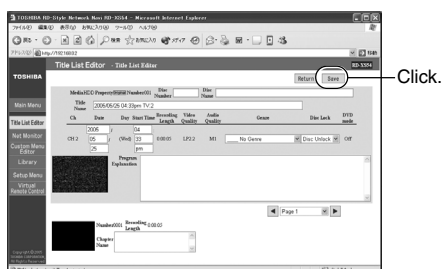
### 2 Click on the “Title Name” of a title that you want to change or view its information.

The title details and chapter list will be displayed.

The area that can be changed will be in a window which will accept text input.

**3 Click on an item that you want to change, and select a value or input data.**  
For the content of settings, see the following “Items for setting”.

**4 After the setting is completed, click “Save”.**



The title information will be set.

When you click “Return before saving the change”, the content of the setting will not be changed and you will return to the title list display.

#### ■ Items for setting

Title Name		This allows you to name the recorded title. Enter up to 64 single-byte letters.
Date		This allows you to set the year, month, day, and start time of the recording.
Genre		This allows you to set the genre of the recorded program.
Lock	Lock	This protects against unintentional deleting or editing of the recorded title.
	Unlock	This does not protect the recorded title.
Program Description		This allows you to add an explanation of the program material. Enter up to 800 single-byte letters, including line breaks and spaces.
Chapter Name		This allows you to name the chapter. Enter up to 64 single-byte letters.

#### Notes

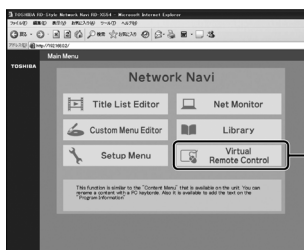
- Changes cannot be made while the recorder is in operation (such as in play mode).
- The program description cannot be saved in a Playlist.



## Operating with the remote control screen

Using this feature, you can operate the recorder using a PC just like using the remote control included with the recorder.

### 1 Click “Virtual Remote Control” on the Main Menu.



The remote control and the display area are shown on the right side and the bottom of the same window as Network Navi.

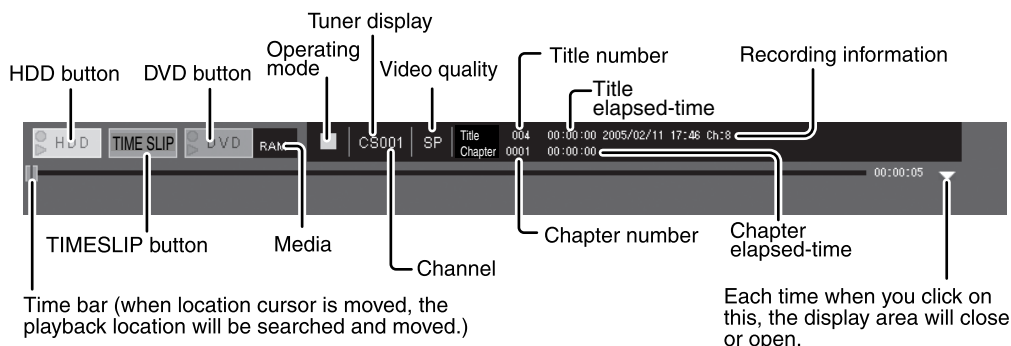
### 2 Click on a button on the remote control screen. The remote control screen will operate in the same way as when you press a button on the regular remote control.

#### Notes

- The displaying of the remote control screen may take some time.
- This feature may not work depending on the disc.
- The recorder response to the remote control command may take time depending on the recorder's operating mode and communication condition within the network.
- If the remote control screen is not displayed properly, clear the browser's cache.
- If you use multiple units of the recorder within the same network, you will need to set up a different “Port Number” for each unit.

#### ■ View of the display area

e.g.



#### Note

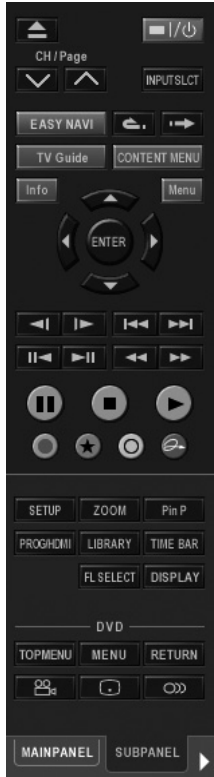
- The display content will renew every second.

■ View of the Virtual Remote Control

Main panel



Sub panel



If you click on this area, the remote control will open and close.

Switch between the Main panel and Sub panel by clicking these areas.

● Net Keyboard

If the recorder's character input window is started while the Virtual Remote Control is displayed, the Net Keyboard screen will be displayed on the PC.



If you enter using Net Keyboard and click "Enter", the Net Keyboard will close. This will be reflected in the recorder's character input window.

Note

- If you click "Cancel" on the Net Keyboard, the Net Keyboard will close. This will not be reflected in the recorder's character input window.

## ● Operation using the Virtual Remote Control

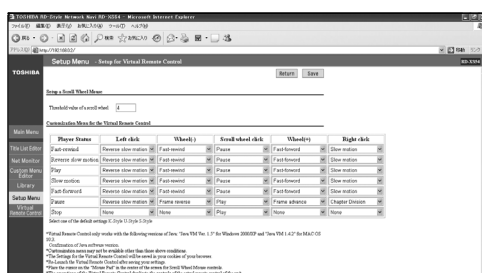
You can have remote control operations using the mouse of a PC.

### ■ Setting up the Virtual Remote Control

If the remote control screen is starting up, begin the setup after the screen has finished displaying.

- 1 Click “Setup Menu” on the Main Menu.
- 2 Click on the “Setup for Virtual Remote Control” button.

A setup screen for the remote control will appear.



- 3 Change the setting to desired operation that is done through a mouse to suit your needs.
- 4 Click “Save”.

### Notes

- Enter under “Threshold value of a scroll wheel” the number of rotations of the wheel when you are using a mouse.
- In “Customization Menu for the Virtual Remote Control”, set the recorder’s operation for each mouse usage time.
- The Virtual Remote Control requires the installation of Java VM v. 1.5 (1.4.2 for Mac OS X). To check the Java version which is available, click on the “Confirmation of Java software version” button in the lower right of the screen.

### ■ Using the Virtual Remote Control

Operate the mouse within the frame of the remote-control screen.



Operate by using the mouse pointer within this frame. If you click outside of this frame, the device will not operate.

The recorder will operate according to the setup of the Virtual Remote Control.

### Note

- If you setup the Virtual Remote Control while the display of the remote control screen is activated, you will need to restart the remote control screen and then operate the Virtual Remote Control.

### ■ Turning the recorder on/off by the Virtual Remote Control

Click the power button of the Virtual Remote Control. The indicator of the button shows the recorder status. (on: green, off: red)

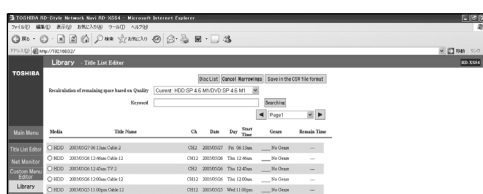
### Note

- If the recorder’s power is turned off on the recorder, any Network Navi operation opens the Main Menu, on which only the power button is available.

## Using Library information (Library)

Like in the “Library”, you can easily find a disc with remaining space or a desired disc by using stored information for each title such as the recorded time and date, where it is recorded, the title name, and the genre. In addition, Network Navi can make a CSV-format file output of the Library information to a PC.

### 1 Click “Library” in the Main Menu.



The information for each title will be displayed in a list. To change the page, click “◀” or “▶” in the window.

### ● Finding the disc containing the title you want to view

#### ■ Arranging Library information

Click on the names of the items that you want to arrange. When you click “Media”, “Title Name”, “Ch”, “Date”, “Day”, “Time”, “Genre”, or “Remain Time”, the items will be rearranged. (However, the HDD remaining time will be displayed as “— — —”.)

#### Notes

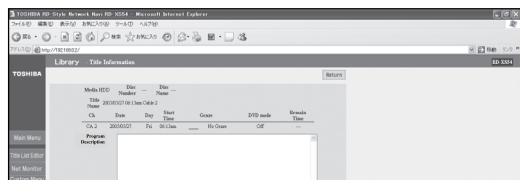
- There may be some differences between the results of the sorting mentioned here and those in the recorder’s Library.
- Library Narrowing, a feature of the recorder, cannot be done here.
- When the settings for “Recalculation of remaining space based on Quality” are changed, the remaining space will change corresponding to the changed settings for recorded AV quality.
- The settings displayed under the recalculation of remaining space can be changed in “AV record quality”.

#### ■ Searching a title by specifying a keyword

Enter a keyword and click “Searching”. Titles containing the keyword in their names are sorted. To cancel, Click “Cancel Narrowings”.

### ● Viewing title information

Click on the title name.



The title information will be displayed.

#### Note

- You cannot change the title information here.

### ● Making file output of Library information to a PC

Click “Save in the CSV title format”.

Library information will be saved in CSV format. Follow the instructions on the PC screen, and perform the steps for saving.

#### Note

- Saving in CSV format is done at the initial stages of the Library display. The results of Arrange will not be reflected.

### ● Displaying a list of remaining space by each disc number (Disc List)

Click “Disc List”.

For all DVD-RAM information saved on HDD or the recorder, a list of remaining space on each disc will be displayed according to disc number, disc name, and recorded AV quality.

Every time you click on the number, disc name, remaining space in the index, you can sort the list with the clicked line as reference.

#### Notes

- The remaining space on the disc will not be displayed unless the disc is saved on the recorder.
- The settings for remaining space which are displayed as 1-5 can be changed in “AV record quality”.
- When you click “Media”, “Title Name”, “Ch”, “Date”, “Day”, “Time”, “Genre”, or “Remain Time”, you can perform a Narrowing of the data that you clicked.
- For the Arrange, the results will be saved for the previous three sorts.

## Setting for custom menu addition (Custom Menu Editor)

When creating a DVD-R/RW, this feature will allow you to set and add 16 types of images that are separate from the 8 types of custom menu which initially came with the recorder.

You will need:

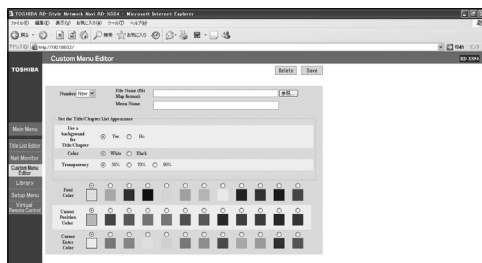
Images that you want to use on the menu screen (Windows bitmap format (bmp),\*1 24 bit color, 720 x 480\*2 pixels (72 dpi))

- If the format is the same, you can save an image from Mac OS as is (72 dpi).
- Since PC and TV display images differently, an image which appears normal on the PC may appear elongated on the TV. An image will appear normally on the TV and can be used as a background if you first create an image on the PC that is 640 x 480 pixel size, then elongate this image horizontally to 720 x 480 pixel size.

### 1 Click “Custom Menu Editor” in the Main Menu.

The Custom Menu Editor screen will be displayed.

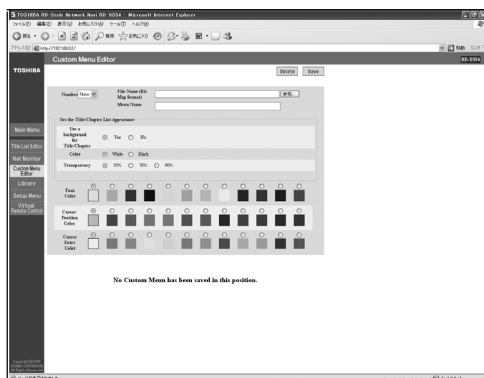
### 2 Specify the bitmap file that you want to use for a custom menu.



You can click “Browse” to select the file.

You can enter the “Menu Name”. You can also save it without entering a name.

### 3 Select “Use a background for Title/Chapter”, “Color”, or “Transparency”.



#### Use a background for Title/Chapter:

Items such as the disc name, title name, and chapter name may become more difficult to read depending on the background image.

In such a case, set the background for the title/ chapter to “Yes”.

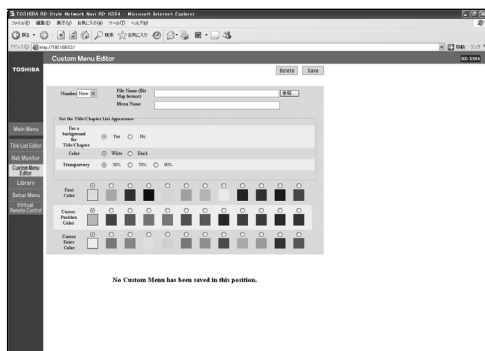
#### Color:

This sets the background color for the title/chapter.

#### Transparency:

This sets the degree of transparency for the background of the title/chapter. The larger the number, the more transparent the background of the title/ chapter, and the background image will be more visible.

## 4 Select “Font Color”, “Cursor Position Color”, and “Cursor Enter Color”.



### Font Color:

This is the font color for items displayed on the menu such as disc name, title name, chapter name, page number, and title/chapter time. The “Return” button that goes back to the title menu will have a white background with a black frame regardless of the setting.

### Cursor Position Color:

The color that will be shown when you navigate the title menu.

### Cursor Enter Color:

The color to be shown when you execute (i.e. press ENTER).

## 5 Click “Save”.

The user custom menu that was set will be sent to the recorder.  
The set custom menu will be displayed towards the bottom of this screen.

### ■ Deleting the user custom menu

Select “Number” and click “Delete”.

### ■ To use the saved user custom menu on the recorder

Click on the “Next” button in “Title Menu Select” and “Chapter Menu Select” under “DVD-Video Create”. Display and select the saved user menu. If you select “Prev” you will return to the preset menu.

## Net Dubbing

You can perform dubbing by designating equipment (Toshiba's HDD & DVD video recorder) on the same network as the dubbing destination.

Net Dubbing can also be performed in "Dub Select Items".

The following conditions are required to use this feature.

- The model must be compatible with Net Dubbing.
- It must have the same subnet connection as the recorder (such as by being connected to the same router or being directly connected to each other by a crossover cable).
- The setup is done in "Net Dubbing Settings" under Network Setting.
  - Set "Request from another device" to "Accept".
  - Give a "Group Name". (All devices that you want to dub must be set with the same group name.)
  - Set a "Group Password". (All devices that you want to dub must be set with the same password.)

These devices must be in the following conditions.

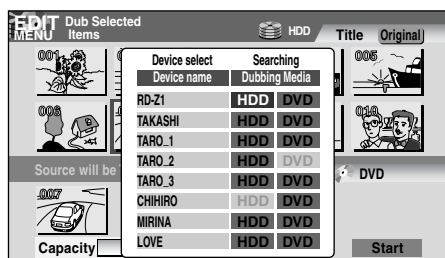
- 1 Their power is on. (Insert a disc if applicable.)
- 2 They are in stop mode.

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

### ● Dubbing to a device on the same network

- 1 Select a part to copy/move on "Edit Menu", then press **QUICK MENU**. Select "Change media to NET" from "Quick Menu", then press **ENTER**.

When you first select the part that you want to dub and then switch to the dubbing destination, a message will be displayed. If you do not want to cancel the selected part, choose "No".



Select a destination for dubbing, and then a display will appear on the screen. The display will show the devices within the network that can be specified as a dubbing destination (up to 8 devices).

- 2 Select a network device name using **▲ / ▼**, then press **ENTER**.  
Multiple devices cannot be selected.
- 3 Select the destination for dubbing using **◀ / ▶**, then press **ENTER**.  
Dubbing will begin.

You can use a setting to automatically shut off the power after dubbing is completed. (You cannot use this setting for the device that is the dubbing destination.)

During the dubbing, press **QUICK MENU** and select "Auto Power OFF" using **▲ / ▼**, then press **ENTER**.

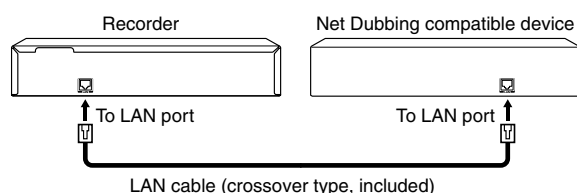
Even if you selected "Auto Power OFF", the power may not switch off for certain cases such as when a timer recording has started.

#### Notes

- This feature is available only for models that are compatible with Net Dubbing. A drive that was not expected at the release of the recorder may be recognized in the future. In such a case, the drive column may show a number such as #5 when connecting to a future model. This is not a malfunction. After you check which drive it is, perform the dubbing. In addition, there may be some future model in which dubbing may not be supported to some drives.
- In Net Dubbing, only copying can be done. Therefore, dubbing cannot be done for copy-prohibited titles and chapters of copy-once programs.
- A DVD-R/RW (Video mode) cannot be used as a dubbing destination or origin.
- Net Dubbing is a feature of High speed dubbing. Rate conversion dubbing cannot be done.
- Net Dubbing will be interrupted if a timer recording starts during Net Dubbing. Redo Net Dubbing after the completion of the timer recording.
- When using the Net Dubbing feature, noises may occur on images received by the recorder's tuner and external input due to the increase in data access of the network. Usage of Net Dubbing is recommended when recording from these inputs is not being performed.

### ■ Directly connecting Net Dubbing compatible models

By directly connecting with the Net Dubbing compatible device, you can dub without the network environment. It is necessary to set the compatible device's IP address to an address that is different but within the same subnet as the recorder's.



#### 1 Make the “Network Setting” on ➡ page 147.

Setup as in the example below.

- DHCP:

Not used (both for the recorder and compatible)

- IP Address

192.168.1.10 (IP address of the recorder)

192.168.1.15 (separate compatible device)

- Subnet Mask:

255.255.255.0 (for both the recorder and compatible device)

- Default Gateway:

192.168.1.1 (for both the recorder and compatible device)

- DNS Server:

192.168.1.1 (for both the recorder and compatible device)

#### 2 Select “Save” to save the settings.

### ■ If you want to abort the copy/move

#### 1 Press QUICK MENU while the copy/move is in process.

“Quick Menu” will be displayed.

#### 2 Select “Cancel Dubbing” using ▲ / ▼, then press ENTER.

#### Notes

- If you abort copy/transfer, the portion being dubbed will be deleted at the dubbing destination.
- For DVD-R, there will be reduced space from any amount of content that has already been written even though the process may have been aborted.



## Net Monitor

A TV program which is being broadcasted or has been recorded can be viewed on a PC that is connected to the recorder. (In other cases, Net Monitor may not operate normally.)

Net Monitor can be used to stream content (live tuner or recorded content) from the recorder to the PC for viewing in your home office.

The following conditions are required to use Net Monitor.

- QuickTime® (v 7.0.2) must be installed on the PC connected to the recorder.

### Caution

- The operation of Net Monitor is not guaranteed on all PCs. In addition, Net Monitor is not guaranteed to work for future versions of QuickTime®.

### Note

- The features of Net Monitor are to be used on a PC that is connected within the same subnetwork as the recorder. If multiple PCs are connected to one recorder, the features of the Virtual Remote Control and Net Monitor can be used on only one PC.

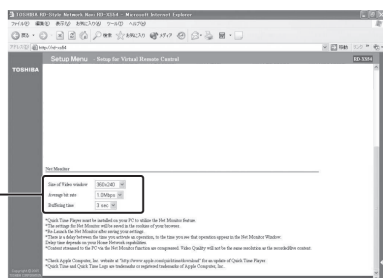
The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

**Note:** Certain factors including, without limitation, the available bandwidth and quality of your internet connection, and the connection between the recorder and your PC, may cause a delay and/or error in the displaying of content on your PC. Such delays and/or errors, if any, may be more pronounced when the recorder is connected via a wireless LAN.

## Net Monitor Settings

The following settings are required to use Net Monitor.

- Click "Setup Menu" in the Main Menu.
- Establish the settings for "Net Monitor".



**Size of Video window:**

Set the monitor window size of Net Monitor.

### Average bit rate:

Set the speed of the data transfer from the recorder to the PC.

If you set the average bit rate to high, you will have a better image than if you set the monitor window image to low. However, the data transfer may be unstable due to the communication load.

### Buffering time:

When transferring audio and video data from the recorder to the PC, a streaming format is used. For streaming, you will need to set the wait time (buffering time). The time will be set according to the processing speed of the PC and the network environment. If the images do not play properly, adjust the buffering time.

### 3 Click on the "Save" button.

The content of the setting will be saved in the browser.

## Starting Net Monitor

### 1 Click on the "Net Monitor" icon in the Main Menu.

The window of "Net Monitor" will be displayed.

The image will be displayed after the QuickTime® startup screen is shown for 3-8 seconds, depending on the buffering time that was set.

## Viewing using Net Monitor

Use "Virtual Remote Control" when operating the recorder using Net Monitor.

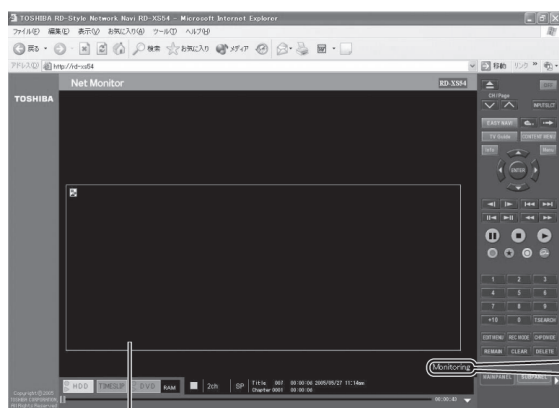
While using Net Monitor, you can operate the recorder with the buttons on the recorder or remote control which is included with the recorder.

### 1 Click on the "Virtual Remote Control" button.

The same operation can be performed as when pressing the buttons of the recorder's remote control.

Compared to TV, the images in the monitor window of Net Monitor will be displayed with a few seconds delay depending on the setting of the buffering time. Therefore, please note that if you perform chapter editing while watching something in the monitor window of Net Monitor, the edited material may be divided at different location compared to what was intended.

## ■ View of the monitor window



Since an image that is displayed in the monitor window is more compressed than that on TV, the image will be less clear.

### The following conditions will be displayed in the monitor window.

If the screen size is set small and the condition display message is long, a part of the message may not be displayed.

#### “Preparing”:

The monitor window is started, and it is preparing for a display.

#### “Monitoring”:

This indicates that the monitor is running.

#### “Net Monitor” is not available”:

It indicates the unavailability of the monitor. Please read the section “On ‘Net Monitor is not available’ due to recorder conditions”.

- The screen may temporarily lock if you click on the monitor window with a mouse. To release, double click or close the monitor window and then reopen.
- If a monitor window size over 900 x 600 is set, a separate window opens to display images from the recorder.

## Notes

- The aspect ratio displayed in the monitor window is 4:3.
- The screen in the monitor window displays a wider area than that of a TV. Therefore, the outer area may flicker.
- If you close the Virtual Remote Control or browser during monitoring, the monitor window will also close.
- You can view the monitor window for up to 9 continuous hours. After 9 hours, the monitor will stop temporarily and then it will resume automatically.
- If you make changes to the “Network Setting” using the recorder, the monitor will stop temporarily, and then it will resume automatically.
- If you display the monitor window while the recorder is displaying the PinP screen, the PinP screen will terminate. In addition, the PinP feature will not be usable while the monitor window is displayed.
- If the program that is broadcasting is a bilingual program, Net Monitor will output the main audio to the L channel and auxiliary audio to the R channel regardless of the sound multiplex setting.
- When you play the title that was recorded using a dual-monaural setting on the recorder, the audio output will follow the sound multiplex setting during the play.
- If a firewall is set on a PC connected to the recorder, the PC may not accept the audio-visual data. In such a case, cancel the firewall setting on the PC or set the “Streaming Transport” of QuickTime® Player to HTTP.
- If “RTSP Proxy Server” is set in the QuickTime® Player’s “Streaming Proxy” setting, operation may not occur properly in some cases.
- In the monitor window, the mouse and keyboard shortcuts of QuickTime® Player are available, but the shortcuts of some features are not available.

- Quick Time is a registered trademark of Apple Computer, Inc.

## ■ On “Net Monitor is not available” due to recorder conditions

A message will be displayed and viewing of the monitor cannot be done under conditions such as the following:

The recorder condition	Monitor window message
Recorder tuner conditions: 15 seconds before the timer recording, in Timeslip mode, during timer recording, or during regular recording.	Net Monitor is not available (The connected recorder is currently recording)
Recorder condition: Rate Conversion Dubbing	Net Monitor is not available (The connected recorder is now Rate Conversion Dubbing)
Recorder condition: DVD-Video menu creating	Net Monitor is not available (The connected recorder is creating a “DVD-Video menu”)
Conditions: Broadcasting a copy-once or copy prohibited image; playing a copy prohibited image on a disc, previewing of a copy prohibited title, playing of a copy prohibited title on the editing screen	Net Monitor is not available (Detected a copy prohibited signal)
Recorder condition: CD playing	Net Monitor is not available (The connected recorder is playing)
Recorder condition: during DV recording on GUI displaying	Net Monitor is not available (The connected recorder is displaying the GUI for recording from a DV device)
Recorder condition: In the process of switching power off or the power is off	Net Monitor is not available (The connected recorder is powered off)
Recorder condition: Line-U is selected	Net Monitor is not available (The connected recorder's input is selected as Line-U)
Recorder condition: Playing 96 kHz Audio of a DVD-Video	Net Monitor is not available (The connected recorder is playing DVD-Video with an audio contents at an unsupported rate -96kHz)
Recorder condition: DVD-Video finalizing	Net Monitor is not available (The connected recorder is finalizing a DVD-Video)
Recorder condition: Dubbing to the HDD	Net Monitor is not available (The connected recorder is dubbing to the internal HDD)
Recorder condition: Net Dubbing	Net Monitor is not available (The connected recorder's GUI is displaying the Net Dubbing screen)

## ■ Net Monitor Help

Check the following items if Net Monitor is not operating properly.

- Are the following compatible with Network Navi (Net Monitor): The OS used, browser type and version, and Java VM version?
  - DOS/V compatible device:
    - OS: Windows® 2000/XP
    - Browser: Internet Explorer 6.0
    - Java VM: Ver. 1.5
  - Macintosh:
    - OS: Mac OS X (10.4)
    - Browser: Safari 2.0
    - Java VM: Ver. 1.4.2
- Do you have the correct version and settings of the installed QuickTime®, the correct connection between the recorder and PC network; and the correct setting of the browser in use?
  - QuickTime® version:
    - For both Windows® and Mac OS, check to see if QuickTime® 7.0.2 is installed.
  - QuickTime® setting:
    - Check the setting of the “Streaming Transport” of QuickTime® Player.

Select UDP: This is normally selected.

Select HTTP: In the case where a firewall is set up on your PC, the image will be transferred properly from the recorder to the PC if you select this option.

Check the setting of “Streaming Proxy” of QuickTime® Player.

Select RTSP: In some cases Net Monitor does not operate properly if “RTSP Proxy Server” is setup.

→ Check the network connection:

Confirm that the Network Navi features can be used properly.

Confirm that the recorder and PC are within the same subnet.

→ Check the browser setting:

Confirm that Java is usable in the set browser.

- Monitor window image shakes or stops.
  - Set the window size smaller.
  - Check the bit rate and buffering time that was set:
    - The settings must be made in accordance with the PC connected to the recorder and network environment. In some cases, if you setup according to the processing speed of the PC, you may be able to view properly during a replay or broadcast.

## Network Navi features (Continued)

- Toshiba is not responsible for any damage or loss caused directly or indirectly by the failure of the recorder to record content intended to be recorded.
- Toshiba is not responsible for, nor has any control over, any content recorded and/or viewed using the recorder.

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

## Setting a timer recording using email

You can remotely set a timer recording using email.

### Preparation

- Connect the recorder to the internet, and turn on the power of each equipment.
- Set the "Mail Setting" under "Network Setting".
- Change the mail software setting to text format. (Timer recording setting by email is not compatible with email in HTML format.)
- A trial run of timer recording setting by email is recommended to test its operation before an actual run.

## ● Setting a timer recording by directly specifying the date, time, and channel

### 1 Enter the email destination (To:).

Enter the "Sender Address" that was set in "Mail Setting".

e.g. XXXXXXXX@XXX.XXX.com

### 2 Enter the content of a timer recording in the body of the email.

Enter text in single-byte letters. (Both capitalized and non-capitalized letters can be used.)

Enter a space between each item.

e.g. open rdstyle prog add 04012006 1100am 0130pm CAT125 SP SH

1 2 3 4 5 6 7 8 9 10

\* Omissible.  
When not specified, the recorder selects "HDD" as the recording media, "SP" as the recording quality. For the other recording settings, the setup menus are referred to.

No.	Category	Character	
1	Header	open	
2	Keyword	(same keyword from Setup menu)	
3	Description	prog	
4	Description	add	
5	Date(Month/Day/Year)	mmdyyy	
6	Start time (0100-1259)	hhmmam/hhmmmpm	
7	End time (0100-1259)	hhmmam/hhmmmpm	
8	Program CH	TV	2-69
		CATV	CAT1-125
		C.BOX	CBX0-999
		Satellite box	SAT0-9999*
		Line in	L1, L2, L3
9	Recording Quality	SP	SP
		SP-Audio	SPA
		MP	MP
		LP	LP
		EP	EP
		SEP	SEP
		EXP	EXP
		EXP-Audio	EXPA
		XP	XP
		XP-Audio	XPA
		User	User
10	Media	HDD	SH
		DVD	SD

### Notes

- Depending on the software for sending timer recording setting email, a part of the first line may go to a new line if it is long. If this occurs, timer recording setting content will not be read correctly.
- If there is an excessively large number of email messages on the mail server, the timer recording setting email may not be received.
- When the recorder does not have an always-on internet connection, timer recording setting using email cannot be done.
- In some cases, a timer recording might not be possible depending on the start time of the timer recording and the recorder's operating mode.
- An email account compatible with POP3 or APOP is required as a destination of timer recording setting email. You cannot use an account such as a cell phone email address in which you cannot send or receive email from your home PC.
- If you receive email using a PC which is set to automatically delete email from the mail server, the recorder may not receive the timer recording setting email.
- Only one timer recording setting can be done per email.
- If an email message begins with the same format as the timer recording setting email, it may be regarded as a timer recording setting email and may be received by the recorder instead of the PC.
- If the email timer recording keyword is entered incorrectly, you will not be able to set a timer recording. In addition, if a symbol is part of the email timer recording keyword, it will cause an error. Therefore, you will not be able to set a timer recording.

\* Input by 3 or 4 digits according to the setting (▶ page 44, INSTALLATION GUIDE). If not, the timer recording will not be executed.

## ● Useful features of timer recording setting using email

### ■ Receiving timer recording setting email

The recorder receives timer recording setting email on the POP server at 15-minute intervals.

#### Note

- The recorder cannot receive timer recording setting email while displaying a GUI on a connected TV. Therefore, a prolonged GUI view on the TV may cause failure in timer recording setting using email.

### ■ When setting is successful (setting completion email)

When the recorder receives the timer recording setting email, you can receive email that notifies you of setting completion or setting failure. Make the following settings.

- Set "Completion Notice" to "Secondary Address and sender", "Return to sender", or "Secondary Address".
- If "Completion Notice" is set to "Secondary Address and sender" or "Secondary Address", enter the email address (secondary address) at which you would like to receive the notice in "Secondary Address".

### ■ When setting is successful

e.g.

The timer recording from the e-mail was saved correctly.

Date: Sun 4/3/06

Start Time: 01:00am

End Time: 02:00am

Channel: CBX015

mailto: email address (email address set in Network Navi Setting)?subject = subject line

(delete timer recording setting of RD -

XS55.)&body=open%20password

(password set in Network Navi

Setting)%20prog&20del%20setting ID(ID of the timer recording setting)

### ■ When setting is unsuccessful

You will be notified of the reason for not being able to set the timer recording.

#### Notes

- If there is an error on the recorder side, you will not be able to set a timer recording.
- The following are possible errors:
  - The start time of the recording is less than 15 minutes from the present time.
  - The end time of recording is more than 15 minutes from the present time and the start time was more than 8 hours ago.
- Email cannot be sent or received while the GUI is displayed on the TV screen connected to the recorder.

### ■ Check remaining space on HDD using email

The remaining space on the internal HDD can be checked using email.

Enter the following in the body of the email.

e.g. open rdstyle prog remain

Remaining space

#### Note

- Enter only single-byte letters as text, and enter a space between each item.

### If you are having a difficulty with Network Navi features...

The following are Network Navi features each of which must be set for proper operation. Complete the basic settings as in the table below, and then make appropriate changes to the settings. If the Network Navi features are not operating, check the settings again to make sure all inputs are correct.

Network Navi Features	Operating Environment/Basic Settings	Required Settings
Network Navi	<ul style="list-style-type: none"> <li>OS:Windows® 2000/XP Mac OS X(10.4)</li> <li>JAVA VM Ver.1.5 (For Mac OS X: 1.4.2)</li> <li>Network Setting</li> </ul>	
Virtual Remote Control	<ul style="list-style-type: none"> <li>OS:Windows® 2000/XP Mac OS X(10.4)</li> <li>JAVA VM Ver.1.5 (For Mac OS X: 1.4.2)</li> <li>Network Setting</li> </ul>	<ul style="list-style-type: none"> <li>Other settings</li> <li>Port Number</li> </ul>
Net Dubbing	<ul style="list-style-type: none"> <li>OS:Windows® 2000/XP Mac OS X (10.4)</li> <li>Network Setting</li> </ul>	<ul style="list-style-type: none"> <li>Settings for Net Dubbing</li> <li>Set "Request from another device" to "Accept".</li> <li>Enter a group name. (Set the same group name for all the devices that you wish to dub.)</li> <li>Enter the group password. (Set the same password for all the devices that you wish to dub.)</li> </ul>
Setting a timer recording using email	<ul style="list-style-type: none"> <li>OS:Windows® 2000/XP Mac OS X (10.4)</li> <li>Network Setting</li> <li>An always-on connection environment is required.</li> </ul>	<ul style="list-style-type: none"> <li>Mail Setting</li> </ul>
Net Monitor	<ul style="list-style-type: none"> <li>OS:Windows® 2000/XP Mac OS X(10.4)</li> <li>Internet Explorer 6.0 (Safari 2.0 for Mac OS X)</li> <li>Java VM Ver.1.5 (For Mac OS X: 1.4.2)</li> <li>Network Setting</li> </ul>	<ul style="list-style-type: none"> <li>Installation and settings of QuickTime® (v. 7.0.2)</li> <li>Settings for Net Monitor</li> </ul>

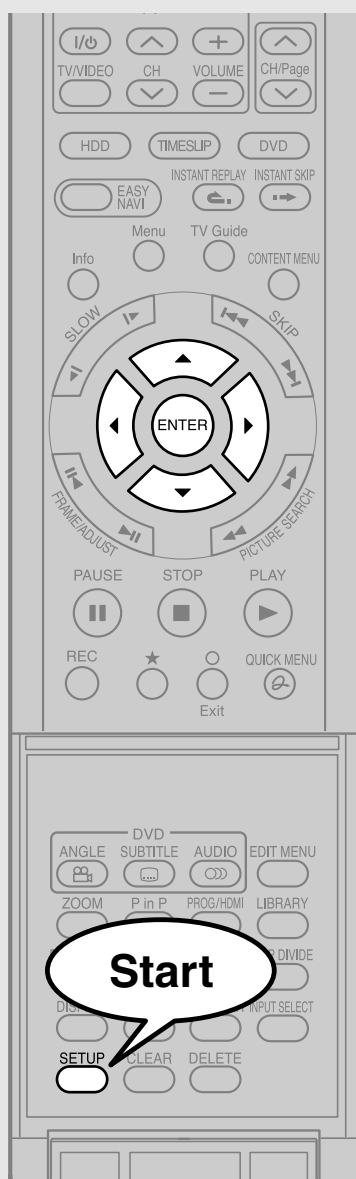
# Function setup

You can change the default settings to customize performance to your preference.

- **Customizing the function settings**

# Customizing the function settings

You can change the default settings to customize performance to your preference.



## Notes

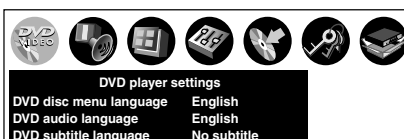
- SETUP button is available even during normal playback. However some items may be grayed out and they cannot be selected. In this case, try again after playback is stopped.
- SETUP button is not available during recording, Recorded Title Play, Chase Play or Pause TV modes.

## 1 Press SETUP.

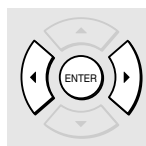


The following setup display appears.

e.g.



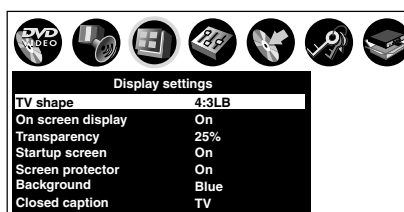
## 2 Press ◀/▶ to select the icon of a group that contains a desired item, then press ENTER.



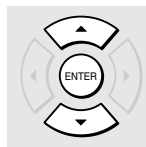
For details on each setting, see the next page.

e.g. When "Display settings" is selected:

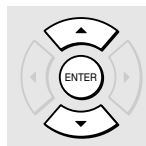
e.g.



## 3 Press ▲/▼ to select a desired item, then press ENTER.



## 4 Refer to the explanations on pages beginning from 176, to change the selection by ▲/▼ or other buttons, then press ENTER.



- To select another item in the same group, repeat steps 3 to 4.
- To shift to another group, press O button then repeat steps 2 to 4.

## 5 Press SETUP.



The setup display disappears and the setting is completed.



Setting	Details	Page
<b>DVD player settings</b>		
<b>DVD disc menu language</b> DVD-VIDEO	To select a preferred language for disc menus.	176
<b>DVD audio language</b> DVD-VIDEO	To select a preferred language for the sound track.	176
<b>DVD subtitle language</b> DVD-VIDEO	To select a preferred language for subtitles.	176
<b>DVD dynamic range control</b> DVD-VIDEO	To turn on or off a function that makes faint sounds easier to hear even if you lower the volume during late-hour playback.	177
<b>Karaoke vocal</b> DVD-VIDEO	To turn on or off the vocal output during DVD KARAOKE disc playback.	177
<b>DVD parental lock</b> DVD-VIDEO	To turn the parental lock function on or off.	177
<b>DVD title stop</b> DVD-RW DVD-R DVD-VIDEO	To turn on or off a feature that automatically stops playback after a title has been viewed.	178
<b>Picture/Audio settings</b>		
<b>Pause/Still</b> HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO	To select the resolution of still pictures. (Field/Frame)	179
<b>Output Black level</b> HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO VCD	To select the black level of playback pictures.	179
<b>Custom picture select</b> HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO VCD	To select from standard or three customized picture settings.	179
<b>Custom picture setting</b> HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO VCD	To customize picture quality settings and store them.	179
<b>Progressive conversion</b> HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO VCD	To select the system of output signal. (Only when connected to a PROGRESSIVE TV.)	179
<b>Play DNR</b> HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO VCD	To select a setting for playback at a reduced noise level.	180
<b>Audio out select</b> HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO VCD CD	To select an output sound format corresponding to your system connection.	180
<b>Virtual surround</b> HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO	To turn on or off expansive virtual surround sound effects from just two speakers.	180
<b>SAP</b>	To monitor and record SAP broadcast.	181

(Continued)

## Customizing the function settings (Continued)

Setting	Details	Page
<b>Display settings</b>		
<b>TV shape</b> <input type="button" value="HDD"/> <input type="button" value="DVD-RAM"/> <input type="button" value="DVD-RW"/> <input type="button" value="DVD-R"/> <input type="button" value="DVD-VIDEO"/>	To select a picture size according to the aspect ratio of your TV.	181
<b>On screen display</b> <input type="button" value="HDD"/> <input type="button" value="DVD-RAM"/> <input type="button" value="DVD-RW"/> <input type="button" value="DVD-R"/> <input type="button" value="DVD-VIDEO"/> <input type="button" value="VCD"/> <input type="button" value="CD"/>	To activate or deactivate the operational status display (e.g., ►) on the TV screen.	181
<b>Transparency</b> <input type="button" value="HDD"/> <input type="button" value="DVD-RAM"/> <input type="button" value="DVD-RW"/> <input type="button" value="DVD-R"/> <input type="button" value="DVD-VIDEO"/> <input type="button" value="VCD"/> <input type="button" value="CD"/>	To select the transparency of the on-screen menus relative to background pictures.	181
<b>Startup screen</b>	To turn on or off the start-up screen setting that makes the background picture appear automatically when turning on the power.	181
<b>Screen protector</b> <input type="button" value="HDD"/> <input type="button" value="DVD-RAM"/> <input type="button" value="DVD-RW"/> <input type="button" value="DVD-R"/> <input type="button" value="DVD-VIDEO"/> <input type="button" value="VCD"/> <input type="button" value="CD"/>	To turn the screen saver on or off.	181
<b>Background</b>	To select a display status when no video signals are present.	182
<b>Closed caption</b>	To select where you turn on or off closed caption.	182

<b>Operational settings</b>		
<b>Operation beep</b> <input type="button" value="HDD"/> <input type="button" value="DVD-RAM"/> <input type="button" value="DVD-RW"/> <input type="button" value="DVD-R"/> <input type="button" value="DVD-VIDEO"/> <input type="button" value="VCD"/> <input type="button" value="CD"/>	To turn on or off the confirmation beeper announcing when each remote command is received.	182
<b>Completion beep</b> <input type="button" value="HDD"/> <input type="button" value="DVD-RAM"/> <input type="button" value="DVD-RW"/> <input type="button" value="DVD-R"/>	To select whether or not a buzzer sounds when dubbing and certain functions are finished.	182
<b>IR code</b>	To switch the remote control codes that operate the recorder.	182
<b>Instant skip interval</b> <input type="button" value="HDD"/> <input type="button" value="DVD-RAM"/> <input type="button" value="DVD-RW"/> <input type="button" value="DVD-R"/> <input type="button" value="DVD-VIDEO"/> <input type="button" value="VCD"/> <input type="button" value="CD"/>	To set the time interval to skip when INSTANT SKIP button is pressed once.	182
<b>Instant replay interval</b> <input type="button" value="HDD"/> <input type="button" value="DVD-RAM"/> <input type="button" value="DVD-RW"/> <input type="button" value="DVD-R"/> <input type="button" value="DVD-VIDEO"/> <input type="button" value="VCD"/> <input type="button" value="CD"/>	To set the time interval to go back when INSTANT REPLAY button is pressed once.	183
<b>Title thumbnail point</b> <input type="button" value="HDD"/> <input type="button" value="DVD-RAM"/> <input type="button" value="DVD-RW"/> <input type="button" value="DVD-R"/>	To select the position of the thumbnail image counting from the beginning of the title that has been recorded.	183
<b>HDD/RAM title play</b> <input type="button" value="HDD"/> <input type="button" value="DVD-RAM"/>	To activate resume play per title or continuous play.	183
<b>Still group interval</b> <input type="button" value="DVD-RAM"/>	To select an interval of still picture display.	183
<b>Priority contents</b>	To select the playback priority between JPEG (picture) files and MP3/WMA (audio) files.	183

Setting	Details	Page
<b>DVD recorder operation</b>		
<b>User record quality</b> HDD DVD-RAM DVD-RW DVD-R	To select picture and sound quality settings for a manual program recording.	183
<b>Picture record mode</b> HDD DVD-RAM DVD-RW DVD-R	To make further settings when you cannot adjust the image quality with "Custom picture setting" of the "Picture/audio settings".	184
<b>Input Black level</b> HDD DVD-RAM DVD-RW DVD-R	To select the black level of recording pictures.	184
<b>Aspect ratio (Video mode)</b> DVD-RW DVD-R	To set the aspect ratio for DVD-R recording.	184
<b>DVD compatible mode</b> HDD DVD-RAM DVD-RW DVD-R	To set the audio for DVD-R recording.	184
<b>DVD-Video:CHP create</b> DVD-RW DVD-R	To set whether or not chapters are to be automatically created at a specified interval for DVD-R recording.	185
<b>Rec DNR</b> HDD DVD-RAM DVD-RW DVD-R	To activate or deactivate the 3D digital noise reduction.	185
<b>3D Y/C separation</b> HDD DVD-RAM DVD-RW DVD-R	To activate or deactivate the 3D digital filter to execute Y/C (Brightness/Color) separation.	185
<b>Relay recording</b> HDD DVD-RAM	To turn on or off a function that will automatically switch recording from a DVD-RAM disc to the HDD when there is less than 10 minutes of space available on the DVD-RAM disc or when there is no disc loaded.	185
<b>Management settings</b>		
<b>Network Setting</b>	To set a recorder for the Network Navi function.	147
<b>Genre setting</b> HDD DVD-RAM DVD-RW DVD-R	To register the frequently used genre on the menu.	186
<b>Front Display</b>	To set the front panel display to turn on/off in the standby mode.	186
<b>HDD auto stop</b> HDD	To turn on or off a power saving function that stops the HDD after a certain period of inactivity.	186
<b>All HDD titles delete</b> HDD	To delete all the titles recorded on the HDD, leaving the Library information on a DVD-RAM disc.	186
<b>HDD format</b> HDD	To initialize the HDD.	187
<b>DVD-RAM physical format</b> DVD-RAM	To perform physical formatting of a DVD-RAM disc.	35
<b>DVD Drive speed setting</b> HDD DVD-RAM DVD-RW DVD-R	To reduce the mechanical noise during High speed dubbing. (➡ page 100 – 105)	187
<b>Version (Main/DVD drive)</b>	To display the version of the software. The version is only displayed and cannot be set.	
<b>Initial settings</b>		
<b>Language</b>	To select a preferred language for on-screen displays (except TV Guide On Screen).	187
<b>Time &amp; Date setting</b>	To set the clock of the recorder.	187
<b>Guide and Clock reset</b>	To correct the clock of the recorder.	187
<b>Set Top Box setting</b>	To control channels of a connected satellite set top box from the recorder.	187

## DVD player settings

### DVD disc menu language

DVD-VIDEO

#### English:

To display disc menus in English.

#### French:

To display disc menus in French.

#### Spanish:

To display disc menus in Spanish.

#### Others:

To make a further language choice.  
After pressing ENTER button, follow steps 1) – 4) below.

e.g.



- 1) Obtain the language code of the preferred language from Language Code List (⇒ page 195).
- 2) Select the first character by pressing ▲ / ▼ buttons (or ADJUST button).
- 3) Press ◀ / ▶ buttons to shift. Select second character by pressing ▲ / ▼ buttons (or ADJUST button).
- 4) Press ENTER button.

#### Note

- Some DVD video discs may not include your preset language. In this case, the recorder automatically displays disc menus consistent with the disc's initial language setting.

### DVD audio language

DVD-VIDEO

#### English:

To play sound tracks recorded in English.

#### French:

To play sound tracks recorded in French.

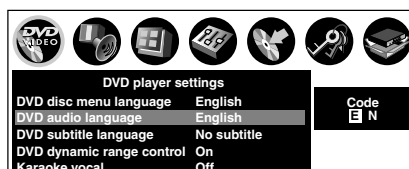
#### Spanish:

To play sound tracks recorded in Spanish.

#### Others:

To make further choices.  
After pressing ENTER button, follow steps 1) - 4) below.

e.g.



- 1) Obtain the language code of the preferred language from the Language Code List (⇒ page 195).
- 2) Select the first character by pressing ▲ / ▼ buttons (or ADJUST button).
- 3) Press ◀ / ▶ buttons to shift. Select second character by pressing ▲ / ▼ buttons (or ADJUST button).
- 4) Press ENTER button.

#### Note

- Some DVD video discs may be played in a different language from that you selected. A prior language may be programmed by the disc.

### DVD subtitle language

DVD-VIDEO

#### English:

To display subtitles in English.

#### French:

To display subtitles in French.

#### Spanish:

To display subtitles in Spanish.

#### No Subtitle:

To disable subtitles.

#### Others:

To make a further choice.  
After pressing ENTER button, follow steps 1) – 4) below.

e.g.



- 1) Obtain the language code of the preferred language from Language Code List (⇒ page 195).
- 2) Select the first character by pressing ▲ / ▼ buttons (or ADJUST button).

- 3) Press ◀/▶ buttons to shift. Select the proceeding character by pressing ▲/▼ buttons (or ADJUST button).

- 4) Press ENTER button.

#### Notes

- Some DVD video discs may be set to display subtitles in a different language from that you selected. A prior subtitle language may be programmed by the disc.
- Some DVD video discs allow you to change subtitle selections only via the disc menu. In this case, press MENU button and choose the appropriate subtitle language from the selection on the disc menu.

### DVD dynamic range control

#### DVD-VIDEO

Turns on or off a function that makes faint sounds easier to hear even if you lower the volume during late-hour playback.

#### Off:

The DVD Dynamic Range Control does not function.

#### On:

The DVD Dynamic Range Control functions.

#### Notes

- This function is available only for a disc recorded in Dolby Digital format.
- Depending on the disc you play back, the actual effect of this function differs.

### Karaoke vocal

#### DVD-VIDEO

#### Off:

The main vocal sound is not output.

#### On:

The main vocal sound is output.

#### Notes

- This function is available only for a DVD KARAOKE disc recorded in Dolby Digital Multi Channel format.
- If you want to enjoy KARAOKE function, connect an amplifier or other such device to this recorder.

### DVD parental lock

#### DVD-VIDEO

DVD video discs equipped with the Parental Lock function have a predetermined limitation level. The limitation level or limitation method may differ depending on the disc. For example the whole contents of a disc may not be played back, or an extreme violent scene maybe cut or replaced automatically by another scene.

#### Important

- Depending on discs, it may not be evident whether the disc is compatible with Parental Lock function. Make sure that Parental Lock function you set is activated correctly.

#### On:

Select this to activate Parental Lock function or to change the setting.

After pressing ENTER button, follow steps 1) – 3) below.

#### Off:

Deactivate the Parental Lock function.

After pressing ENTER button, follow steps 1) below.

- 1) Enter a 4-digit password by using the number buttons, then press ENTER button.

If you make a mistake entering your password, press CLEAR button before pressing ENTER button, and re-enter the correct password.

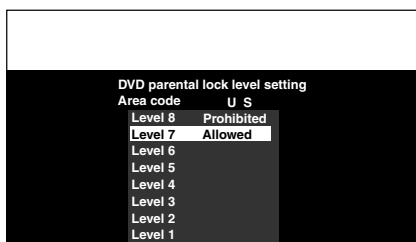
- 2) Press ▲/▼/◀/▶ buttons to move the cursor. Then press ADJUST button to enter the code of a country/area whose standards were used to rate a DVD video disc, referring to the list below.

(Continued)

Country/Area	Code
AUSTRALIA	AU
BELGIUM	BE
CANADA	CA
CHINA	CN
CHINA HONG KONG	HK
DENMARK	DK
FINLAND	FI
FRANCE	FR
GERMANY	DE
INDONESIA	ID
ITALY	IT
JAPAN	JP
MALAYSIA	MY
NETHERLANDS	NL
NORWAY	NO
PHILIPPINES	PH
RUSSIAN FEDERATION	RU
SINGAPORE	SG
SPAIN	ES
SWEDEN	SE
SWITZERLAND	CH
TAIWAN	TW
THAILAND	TH
UNITED KINGDOM	GB
UNITED STATES	US

- 3) Select the desired limitation level by pressing **▲ / ▼** buttons, and then press **ENTER** button.

e.g.



Unless the Parental Lock function is set to “Off”, a disc that has a higher limitation level than your selected limitation level cannot be played back. For example, if you select level 7, discs exceeding level 8 are locked and cannot be played back.

When “US” is selected, its limitation level corresponds to the following settings.

Level 7 : NC-17      Level 3 : PG  
 Level 6 : R          Level 1 : G  
 Level 4 : PG13

#### ■ To change the limitation level of Parental Lock function

Follow step 1) - 3) above.

#### ■ To change the password

- 1) Press **STOP** button 4 times after selecting “On” and “Off” in order, and then press **ENTER** button.

The password is cleared.

- 2) Enter a new 4-digit password by using the number buttons.

- 3) Press **ENTER** button.

#### DVD title stop

**DVD-RW** **DVD-R** **DVD-VIDEO**

##### Off:

Plays back all following titles on the disc after the current title has been viewed.

##### On:

Recorder is stopped after playback of current title being viewed is completed.

## Picture/Audio settings

### Pause/Still

HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO

#### Auto:

Normal setting. Pause the moving image without blurring.

#### Frame:

Displays high resolution still image.

### Output Black level

HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO VCD

You can adjust the black level of the output signal.

#### Standard:

Normal black level.

#### Enhanced:

To display deeper, richer black than in "Standard" setting.

#### Note

- This function is not available when the HDMI connection is used.

### Custom picture select

HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO VCD

Select from between 4 picture settings (Normal, Setting 1-3) you stored in the memory.

#### Note

- This setting is not available when the HDMI connection is used.

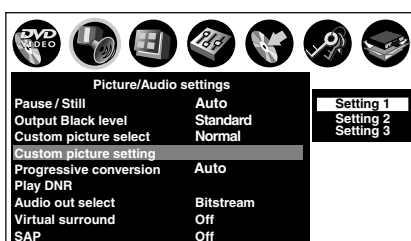
### Custom picture setting

HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO VCD

You can adjust fine picture quality and store up to 3 custom picture settings in the memory of the recorder.

- 1) Press **▲ / ▼** button to select a desired setting from 3 settings, and then press **ENTER** button.

e.g.



- 2) Press **▲ / ▼** buttons to select adjustable items, and then press **◀ / ▶** buttons to select each parameter.

#### Brightness

(0) Darker ⇔ Brighter (14)

#### Contrast

(-7) Lower ⇔ Higher (7)

#### Color

(-7) Duller ⇔ Brighter (7)

#### Tint

(-7) Red ⇔ Green (7)

#### Edge Enhance

Soft/OFF/Sharp

#### Gamma

OFF/1/2

- 3) After adjusting the items, press **ENTER** button.

#### Note

- This setting is not available when the HDMI connection is used.

### Progressive conversion

HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO VCD

There are two types of source content in pictures recorded in DVD video discs: film content (pictures recorded from films at 24 frames per second) and video content (video signals recorded at 30 frames per second). Make this selection according to the type of content being viewed.

#### Auto:

Select this position normally.

The DVD player automatically detects source content, film or video, of playback source, and converts that signal in the progressive output format in an appropriate method.

#### Video:

The DVD player filters video signal, and converts it in the progressive output format appropriately. Suitable for playback of video content pictures.

#### Film:

The DVD player converts film content pictures in the progressive output format appropriately. Suitable for playback of film content pictures. The progressive output feature will be most effective under this selection.

#### Note

- Depending on a disc, pictures may be cut off or doubled.

**Play DNR**

HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO VCD

Selects a setting for playback at a reduced noise level. Press ▲ / ▼ buttons to select an item then select "On" or "Off" using ◀ / ▶ buttons.

**3D-DNR:****Off:**

Not activated.

**On:**

Reduces the noise levels of brightness signals and color signals present in the video signal during playback.

**Mosquito NR:****Off:**

Not activated.

**On:**

Reduces mosquito (flicker) noise occurring in the contour sections of images.

**Block NR:****Off:**

Not activated.

**On:**

Reduces noise that appears in the form of blocks (block noise) in a portion of the screen during playback of images with rapid movement.

DNR is the abbreviation for Digital Noise Reduction.

**Notes**

- DNR effects vary depending on the disc.
- Detailed images may no longer be visible depending on the scene due to the effects of DNR.
- Depending on the disc or scene, "On" may produce undesirable picture artifacts or increase noises on contours. In this instance, select "Off."

**Audio out select**

HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO VCD CD

Selects an output sound format corresponding to your audio system connection.

For details about output sound selection, see ➡ page 192.

**Bitstream:**

Select this when an amplifier equipped with built-in Dolby Digital, DTS or MPEG1 decoder is connected to this recorder.

When you play a disc recorded in Dolby Digital, DTS or MPEG1 format, digital audio signal is output.

**Analog 2ch:**

Select this when a TV or other audio device is connected to this recorder via the ANALOG output connectors.

**PCM:**

Select this when a 2ch digital stereo amplifier is connected to this recorder. When you play a disc recorded in Dolby Digital, MPEG1 or MPEG2 format, the sound is converted to the PCM (2ch) format and output.

**HDMI-Auto:**

Select this when an HDMI compatible device equipped with a Dolby Digital, DTS or MPEG decoder is connected to this recorder.

When you play a disc recorded in Dolby Digital or DTS format, the sound is output in the bitstream format.

If the connected HDMI device does not support Dolby Digital or MPEG, the recorder outputs sounds in the linear PCM format. If it does not support DTS, the recorder outputs no sounds.

**Virtual surround**

HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO

This lets you playback discs with acoustic effects having greater depth and presence even when using only two speakers.

**Off:**

Virtual surround effect not activated.

**On:**

Virtual surround effect activated.

**Notes**

- This function is only activated when playing back a disc recorded with Dolby Digital.
- This function is only activated when "Audio Out Select" is set to "PCM" if the BITSTREAM/PCM jack of this DVD recorder is connected to an amplifier or similar device.
- When the virtual surround effect is activated, Dolby Progressive Sound may be deactivated or sound differently than usual.
- When the virtual surround effect is activated, the volume may sound differently than usual.
- Set "Virtual surround" to "Off" if the audio sounds distorted.

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## Display settings

### SAP

SAP (Second Audio Program broadcast) is separate audio program, usually broadcast in a second language with the main language.

#### Off:

The main sound is received.

#### On:

SAP sound (second language) is received.

### TV shape

HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO

Select a picture size according to the aspect ratio of your TV.

For details on this setting, see “TV shape setting” (➡ page 48, “INSTALLATION GUIDE”).

### On screen display

HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO VCD CD

#### Off:

Deactivates the operational status display (e.g., ►) on the TV screen.

#### On:

Activates the operational status display (e.g., ►) on the TV screen.

### Transparency

HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO VCD CD

Selects the transparency of the recorder's on-screen menus and its relationship to the background image.

0% : 25% : 50%

### Startup screen

#### Off:

The startup screen is not displayed.

#### On:

The startup screen appears automatically when turning on the power.

### Screen protector

HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO VCD CD

To reduce TV screen damage (image burn), this function disengages the pause mode of a playback image. The display returns to the normal TV screen when the recorder remains idle for more than 15 minutes. In time slip mode, the playback pause is released.

If this function is set to “On”, the recorder, if freezes, may return to the normal by leaving it for about 15 minutes or longer.

(Continued)

#### Off:

Deactivates the screen protector function.

#### On:

Activates the screen protector function.

#### Note

- Toshiba does not guarantee that this function protects the TV screen by all means.

### Background

Selects a screen color when receiving no video signals such as selecting a non-broadcasting channel.

#### Off:

No color.

#### Black:

Black is displayed.

#### Blue:

Blue is displayed.

#### Important

- Depending on signal reception, the Background setting may be cleared. To prevent this, set this function to "Off".

### Closed caption

To select where you turn on or off closed captioning.

#### Off:

To disable closed caption.

#### TV:

Closed caption data is decoded on the connected TV. To turn on or off closed caption, operate the connected TV.

#### Recorder:

Closed caption data is decoded on this recorder. You cannot turn off closed caption on the connected TV.

#### Notes

- While the recorder is sending signals in the progressive output format, closed caption is disabled regardless of this setting.
- Depending on the signal condition, closed caption may not be displayed properly. In this case, select "Off."

## Operational settings

### Operation beep

HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO VCD CD

Turn on or off a confirmation beeper announcing when a command is received.

#### Off:

Turns off the beep sound.

#### On:

Turns on the beep sound.

#### Note

- You cannot turn off beeps for alerts irrespective of this setting.

### Completion beep

HDD DVD-RAM DVD-RW DVD-R

This is used to set whether or not a buzzer sounds when dubbing and certain functions are finished.

#### Off:

Buzzer does not sound.

#### On:

Buzzer sounds.

#### Note

- You cannot turn off beeps for alerts irrespective of this setting.

### IR code

Switches the remote control codes to operate the recorder. If you use the second and third TOSHIBA HDD/DVD video recorders, set the different remote codes for each recorder to avoid confusion in the response of the recorders.

For details about this setting, refer to "Operating the second and third TOSHIBA HDD/DVD video recorders with the remote control of this recorder" (➡ page 52, "INSTALLATION GUIDE").

### DR 1 : DR 2 : DR 3

### Instant skip interval

HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO VCD CD

Sets how much time is skipped when INSTANT SKIP button is pressed.

5 sec. : 10 sec. : 30 sec. : 5 min.

## DVD recorder operation

### User record quality

HDD DVD-RAM DVD-RW DVD-R

You can select from 5 combined picture and sound quality recording settings prior to actual recording. Actual selection applied becomes the default setting for normal recording or programmed recording.

e.g.

User record quality			
HDD Setting 1		DVD	
Manual	6.6	L-PCM	SP
4.6 GDD/M1			
Custom setting			
Setting	Mode	Rate	Audio quality
1	Manual	6.6	L-PCM
2	SP	4.6	GDD/M1
3	LP	2.2	GDD/M1
4	Manual	6.0	GDD/M2
5	Manual	3.2	GDD/M1
Total recording time: approx. 71 min. (with 4.7 GB unused)			

#### • To make a combination of picture and sound quality settings.

- 1) Press ▲ / ▼ / ◀ / ▶ buttons to select the desired item ("Mode", "Rate", or "Audio quality").
- 2) Press ADJUST button to change the setting of each item.

#### • To apply the combination of picture and sound quality settings.

- 1) Press ▲ / ▼ / ◀ / ▶ buttons to select a media to record on (HDD or DVD).
- 2) Press ADJUST button to change the setting.

You can confirm the available recording time for the selected setting on the bottom screen.

- 3) Press ENTER button.

#### Notes

- A combination of picture and sound quality settings can be set for the HDD and a DVD-RAM disc respectively.
- You can change the combination of picture and sound quality settings also by displaying Quick Menu on LIBRARY MENU or in stop mode, then selecting "User record quality". Either of the above methods updates the setting of this recorder.
- If you set "SP" or "LP", you cannot select "L-PCM".
- Depending on the sound quality settings, the upper limit for the picture quality setting differs.
- You can adjust the manual rate for picture quality by 0.2 Mbps from 2.0 to 9.2. (You cannot set the rate from 1.0 to 2.0.)

### Instant replay interval

HDD DVD-RAM DVD-RW DVD-R DVD-VIDEO VCD CD

Sets how far back is replayed when INSTANT REPLAY button is pressed.

**5 sec. : 10 sec. : 30 sec. : 5 min.**

### Title thumbnail point

HDD DVD-RAM DVD-RW DVD-R

For recorded titles, sets how far a scene from the start is set as the title thumbnail.

**0 sec. : 3 sec. : 10 sec. : 35 sec. : 1 min. : 5 min.**

#### Note

- Thumbnails can also be changed to other scenes. See ➡ page 126.

### HDD/RAM title play

HDD DVD-RAM

Sets the resume play per title.

#### Title resume:

Remembers the point where you stop playback.  
Allows you to resume the playback from that point.

#### Serial playback:

You can play back titles (Original, Playlist) stored in the HDD or a DVD-RAM continuously.  
Because there is no division between titles, the recorder remembers only the last point where you stopped playback.

### Still group interval

DVD-RAM

Sets an interval for display of still pictures (in seconds) when playing back a collection of still images.

**1 sec. : 2 sec. : 3 sec. : 5 sec. : 10 sec. : Default**

### Priority contents

To select the playback priority between JPEG (picture) files and MP3/WMA (audio) files.

**Photo:** JPEG files take priority over MP3/WMA files.

**Audio:** MP3/WMA files take priority over JPEG files.

#### Note

- If this selection does not correspond to disc contents, the recorder will take a longer time to start playback of the disc.

### Picture record mode

HDD DVD-RAM DVD-RW DVD-R

Adjusts problems with the brightness of video signals of TV broadcasts or other external input.

Press ▲/▼ buttons to select the source, and ◀/▶ buttons to select the mode.

(Only use this setting when you cannot adjust the brightness satisfactorily with the Custom picture setting in Picture/Audio settings (▶ page 179) of this recorder.)

#### Important:

- This setting changes the video signal to record and the recorded signal is not returned to the original state even when this setting is changed after recording. When duplicating from a VHS tape, if you can check the video recording state beforehand, we recommend first playing back for a while and checking the overall brightness tendency, then setting an appropriate mode.

#### Standard:

The brightness of signals received with this recorder and external input signals are adjusted automatically. This is normally the setting to use.

#### Mode 1:

This setting is used to record the signals darker when the screen is too bright.

#### Mode 2, 3, 4:

As the number rises, the signals are recorded brighter. Use these modes to adjust the brightness.

### Input Black level

HDD DVD-RAM DVD-RW DVD-R

You can adjust the black level of the input signal.

#### Standard:

Normal black level.

#### Enhanced:

Brighter black level than in "Standard" setting.

### Aspect ratio(Video mode)

DVD-RW DVD-R

To set the aspect ratio when recording onto a DVD-R/RW disc.

#### 4:3:

Fixes the aspect ratio at 4:3.

#### 16:9:

Fixes the aspect ratio at 16:9.

#### Note

- When the bit rate on "User record quality" is set to "1.0(Mbps)" and "1.4(Mbps)", pictures are recorded in 4:3 aspect ratio even if "16:9" is selected.

### DVD compatible mode

HDD DVD-RAM DVD-RW DVD-R

To set whether or not recording is to be performed in the format for which recording is allowed by the DVD-Video standard (video, audio and other data) during recording.

This selection is important for contents when recorded on this recorder, if they will be copied to DVD-R/RW.

#### Off:

For recording of contents which will not be copied to a DVD-R/RW disc.

Both the main and SAP sounds are recorded.

When recording directly on a DVD-R/RW disc, this is ineffective. The recorder will automatically regard this as "Main," and record sound of the main channel only in stereo. Select "Main" or "SAP" for DVD-R/RW recording.

#### Main:

Records sound of the main channel only in stereo.

#### SAP:

Records sound of the SAP channel only in stereo.

#### Notes

- When you select the manual rate of the picture quality between 3.0 and 3.8 and set this mode to "Main" or "SAP", the picture quality may become lower than when you set this mode to "Off".
- You can change the setting from Quick Menu.
- It is no use to make this selection when dubbing. Select when recording.

## DVD-Video:CHP create

DVD-RW DVD-R

To set whether chapters are to be automatically created at a selected interval during DVD-R/RW recording.

### Off:

Chapters are not set.

### 5 min. : 10 min. : 15 min. : 20 min.

To set the interval at which chapters are automatically created to 5, 10, 15 or 20 minutes.

### Note

- The number of chapters has the upper limit, which varies depending on the disc condition. If the number reaches it, no more chapters are created.

## Rec DNR

HDD DVD-RAM DVD-RW DVD-R

Selects the level of 3D digital noise reduction that can reduce picture noise depending on the scene.

### Off:

Deactivates the 3D digital noise reduction.

### On:

Sets the normal level.

### Expanded:

Increases digital noise reduction.

### Notes

- When you set "Rec DNR" to "On" or "Expanded" and set "3D Y/C Separation" to "On", the priority changes depending on the input selection if you select the S-video input. "Rec DNR" has priority, when you select the built-in tuner or composite input, "3D Y/C Separation" has priority.
- If you want to avoid an afterimage, set this setting to "Off".

## 3D Y/C separation

HDD DVD-RAM DVD-RW DVD-R

The 3D digital comb filter executes Y/C (Brightness/Color) separation to reduce the color irregularity or cross color interference.

### Off:

Deactivates this function.

In an area where the broadcast reception is poor, select this mode.

### On:

Activates this function.

In normal conditions, select this.

### Note

- Refer to the "Notes" in the above "Rec DNR".

## Relay recording

HDD DVD-RAM

Turn on or off a function that makes a recording automatically onto the HDD when the remaining space of a DVD-RAM disc is reduced to less than 10 minutes or when a disc is not loaded.

### Off:

Deactivates this function.

### On:

Activates this function.

### Notes

- The Relay recording does not function during Rate Conversion Dubbing or Line-U Dubbing.
- During playback of the HDD when you start Relay recording and CONTENT MENU is displayed, playback stops.
- During Relay recording, HDD Title Playback is not available.
- When the remaining space on the HDD is small, Relay recording does not function.
- Time slip function (➡ page 69) is not possible while "On" is selected.

## Management settings

### Network Setting

See “Network Navi” (➡ page 147).

### Genre setting

**HDD** DVD-RAM DVD-RW DVD-R

This registers a frequently used genre name onto the menu. Genre names registered here are displayed in the “Genre” on Quick Menu.

- 1) Press ▲ / ▼ buttons to select a position in the “Current Genre List” you want to change, then press ENTER button.

A list of genres appears.

You can turn the pages using ► button.

- 2) Press ▲ / ▼ buttons to select a genre, then press ENTER button.

A list of genre names appears.

- 3) Press ▲ / ▼ buttons to select a genre name, then press ENTER button.

The selected genre name replaces the previous one of the position you selected at step 1).

- 4) Repeat steps 1) to 3) to register genre names.

- 5) When genre names are registered, press O button to return to “Management Settings” menu.

### Front Display

To set the front panel display to turn on/off in the standby mode.

#### Off:

Sets the front panel display to turn off in the standby mode.

#### On:

Sets the front panel display to turn on in the standby mode.

### HDD auto stop

**HDD**

#### Off:

Turns off the HDD auto stop mode.

#### On:

Turns HDD drive off after recorder is idle for approximately 5 minutes.

When PLAY or REC button is pressed for the HDD while the HDD drive is turned off, it takes a little longer time to play or record.

### All HDD titles delete

**HDD**

This deletes all the titles on the HDD. Only the recorded contents are deleted, so a DVD-RAM disc Library information and reservation history are left as is and can continue to be used.



- 1) Press ◀ / ▶ buttons to select “Yes”, then press ENTER button.
- 2) Confirm the message, press ◀ / ▶ buttons to select “Yes” and then press ENTER button.  
Deletion of all titles starts.  
If you want to cancel the deleting, select “No”.

#### Note

- If you periodically execute All HDD titles delete, this holds down fragmentation (increased complexity) of the disc and maintains good operability.

## Initial settings

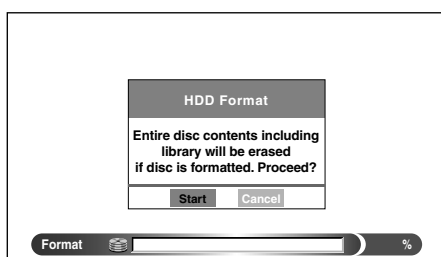
### HDD format

#### HDD

Initializes the HDD.

Normally it is not required to initialize the HDD. However when the HDD does not function correctly, initializing the HDD may solve the situation. If you initialize the HDD, all titles and library information stored in the HDD are permanently deleted.

e.g.



- 1) Press ◀/▶ buttons to select “Start”, then press ENTER button.
- 2) Confirm the message, press ◀/▶ buttons to select “Start”, and then press ENTER button.

Initialization of the HDD starts.

If you want to cancel the initializing, select “Cancel”.

### DVD-RAM physical format

#### DVD-RAM

See ➡ page 35.

### DVD Drive speed setting

#### HDD DVD-RAM DVD-RW DVD-R

To reduce the mechanical noise during High speed dubbing (➡ page 100 – 105).

#### High speed:

Usual mode.

#### Low speed:

The dubbing speed is lowered to reduce the mechanical noise.

### Language

To set a preferred language for on-screen displays.

#### English:

To view on-screen display in English.

#### French:

To view on-screen display in French.

### Time & Date setting

To set the clock manually if it is not set correctly.

- 1) Press ◀/▶ and ADJUST (⏮/⏭) to set the clock.

#### ◀/▶ buttons:

To select “Year”, “Date”, “Time”, or “am/pm”.

#### ADJUST (⏮/⏭) buttons:

To change the date.

(▲/▼ buttons can also be used in addition to ADJUST (⏮/⏭) buttons.)

- 2) After setting all the items, press ENTER.
- 3) Press ◀/▶ to select “Yes”, then press ENTER.

#### Note

- If the clock is set with TV Guide On Screen®, this setting is not available.

### Guide and Clock reset

To correct the clock of the recorder.

This option includes the TV Guide On Screen® resetting process, followed by power off of the recorder. Refer to the guidance to operate.

### Set Top Box setting

To control channels of a connected satellite set top box from the recorder.

See “C: Satellite set top box setting” (➡ page 42, “INSTALLATION GUIDE”).

● Setting of picture and sound quality for recording

	Sound setting					
	D/M1		D/M2		L-PCM	
Picture quality setting	DVD	HDD	DVD	HDD	DVD	HDD
SP	Yes	Yes	Yes	Yes	No	No
LP	Yes	Yes	Yes	Yes	No	No
MN	Yes	Yes	Yes	Yes	Yes	Yes



# **Others**

- Before calling service personnel
- Output sound conversion table
- Error codes on the display window
- Recording duration
- Language Code List
- Specification

# Before calling service personnel

If you experience any of the following difficulties while using this unit, check the list below before consulting your nearest Toshiba dealer.

## Power

### ■ The power is not turned on.

- The power cord is not connected securely.  
→ Connect the power cord securely.

## Connection to your TV

### ■ There is no TV picture.

- The video cable to this recorder and your TV is not connected securely.  
→ Connect the video cable to this recorder and your TV securely.
- The input select on your TV is not set properly.  
→ Select the input to which this recorder is connected.

## TV reception

### ■ There is no picture.

- The antenna cable is not connected securely.  
→ Reconnect the antenna cable securely.

### ■ There is poor reception.

- Channel settings are not completed.  
→ Set the channel settings.
- The antenna cable is not connected securely.  
→ Reconnect the antenna cable securely.
- Antenna signal is poor.  
→ Consult your dealer for adjustment.

## HDMI connection

### ■ There is no picture.

- Your TV is connected with the recorder via some device.  
→ Connect directly your TV with the recorder.
- The HDMI cable is not connected securely.  
→ Reconnect the HDMI cable securely.
- The current HDMI output signal is not compatible with your TV's input signal.  
→ Press PROG/HDMI button to select the appropriate output signal.

### ■ The sound cannot be heard.

- "Audio out select" of "Picture/Audio settings" is not set to "HDMI-Auto".  
→ Set the current output sound of "Audio out select" to "HDMI-Auto".

## Playback

### ■ A DVD or CD does not play.

- The format of the recorded data does not correspond to this recorder, or the region number is neither "1" nor "ALL".  
→ Check the disc.
- A defective or dirty disc is inside.  
→ Change the disc.
- The HDD mode is selected.  
→ Press DVD button.

### ■ The HDD does not play.

- The DVD mode is selected.  
→ Press HDD button.

### ■ During playback, picture noise appears.

- Picture noise may appear in the following cases. It is not a malfunction.  
→ There is picture noise in the original recording.  
→ Weather, reception conditions may cause noise.  
→ The data transmission rate is set to low.  
→ The image data processing of this recorder cannot follow dynamic movement on the screen. (High video data rate)  
→ A physical error has occurred on the DVD disc.

If an error occurs while reading data of a disc, block-noises may be produced there. Repeated reading of this location where the error occurred (retry) can decrease the generation of block noise. However, it can also raise the possibility of unintended delays or stops of playback. In order to prevent them, the recorder limits the number of times of retry.

## Recording

### ■ Cannot be recorded on a DVD-RAM disc.

- The disc is protected from deleting data.  
→ Set the write-protect tab to the opposite of "PROTECT" (➡ page 8).
- The disc is protected by a PC or the recorder.  
→ Disable the protection on the device which protected the disc.
- The disc space is not sufficient.  
→ Delete unwanted data (➡ page 55) or prepare a new disc.
- The disc is not initialized.  
→ Initialize the disc (➡ page 34).
- The disc may contain errors.  
→ Complete the physical format on the disc (➡ page 35).
- The physical format on the disc is not completed.  
→ Complete the physical format on the disc (➡ page 35).

### ■ Cannot be recorded on the HDD.

- The DVD mode is selected.  
→ Press HDD button.
- The disc space of the HDD is not sufficient.  
→ Delete unwanted data (➡ page 55) or move the contents to DVD-RAM discs (➡ page 100).
- Some causes such as power failure may set the recorder to reject the operation to protect the HDD.  
→ Copy necessary contents recorded in the HDD to a DVD-RAM disc, and initialize the HDD.

## TV Guide On Screen®

### ■ TV program list does not appear when TV Guide is pressed.

- Leave the recorder turned off overnight.
- Check the connection and setup TV Guide On Screen® again.
- Listings are not provided for satellite services.
- If you are using a cable box:
  - Ensure the G-LINK® cable is connected and its IR transmitter (the G-LINK® wand) is placed correctly in front of the cable box. See ➡ page 25, "INSTALLATION GUIDE".
  - Leave the cable box turned on all of the time and turn off the recorder when not in use or overnight.
  - Consult your service provider for more information.

## Remote control

### ■ The remote control does not work.

- The batteries in the remote control are exhausted.  
→ Replace all the batteries in the remote control (➡ page 18, "INSTALLATION GUIDE").
- The light emitter of the remote control is not pointed at the receptor of this recorder.  
→ Point the emitter of the remote control at the receptor of this recorder.
- The receptor of this recorder is located too far away from the remote control.  
→ Operate the remote control within 7 meters (23 ft) from the receptor of this recorder.
- There are obstacles between the remote control and this recorder.  
→ Remove any obstacles.
- The receptor is disturbed by sunlight or fluorescent light.  
→ Change the place of this recorder or shield the light.
- The remote mode is not appropriate.  
→ Adjust the remote mode of the remote control and this recorder (➡ page 52, "INSTALLATION GUIDE").

## Clock

### ■ The clock blinks.

- Set the clock (➡ page 187).

# Output sound conversion table

Disc	Sound format	Audio setting (⇒ page 180) and output in the default setting display					
		Bitstream		Analog 2ch		PCM	
		BITSTREAM/ PCM jack HDMI OUTPUT jack	Analog (L/R) jacks	BITSTREAM/ PCM jack HDMI OUTPUT jack	Analog (L/R) jacks	BITSTREAM/ PCM jack HDMI OUTPUT jack	Analog (L/R) jacks
DVD-video disc*	Dolby Digital	Bitstream	48 kHz/20 bit	Bitstream	48 kHz/20 bit	48 kHz/16 bit	48 kHz/20 bit
	Linear PCM	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit
		48 kHz/20 bit	48 kHz/16 bit	48 kHz/20 bit	48 kHz/20 bit	48 kHz/16 bit	48 kHz/20 bit
		48 kHz/24 bit	48 kHz/16 bit	48 kHz/24 bit	48 kHz/24 bit	48 kHz/16 bit	48 kHz/24 bit
		96 kHz/16 bit	48 kHz/16 bit	—	96 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit
		96 kHz/20 bit	48 kHz/16 bit	—	96 kHz/20 bit	48 kHz/16 bit	48 kHz/20 bit
		96 kHz/24 bit	48 kHz/16 bit	—	96 kHz/24 bit	48 kHz/16 bit	48 kHz/24 bit
	DTS	Bitstream	—	Bitstream	—	—	—
	MPEG2	Bitstream	48 kHz/16 bit	Bitstream	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit
VIDEO CD	MPEG1	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit
Audio CD	Linear PCM 44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit
	DTS	Bitstream	(Noise)	Bitstream	(Noise)	Bitstream	(Noise)
HDD	Dolby Digital	Bitstream	48 kHz/20 bit	Bitstream	48 kHz/20 bit	48 kHz/16 bit	48 kHz/20 bit
	Linear PCM 48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit
DVD-RAM/ R/RW	Dolby Digital	Bitstream	48 kHz/20 bit	Bitstream	48 kHz/20 bit	48 kHz/16 bit	48 kHz/20 bit
	Linear PCM 48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit
	MPEG2	Bitstream	48 kHz/16 bit	Bitstream	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit
CD-R/RW	MP3/WMA	44.1 kHz or 32 kHz or 48 kHz / 16 bit					

Disc	Sound format	Audio setting (⇒ page 180) and output in the default setting display	
		HDMI-Auto	
		BITSTREAM/ PCM jack HDMI OUTPUT jack	Analog (L/R) jacks
DVD-video disc*	Dolby Digital	Bitstream/48 kHz/20 bit	48 kHz/20 bit
	Linear PCM	48 kHz/16 bit	48 kHz/16 bit
		48 kHz/20 bit	48 kHz/20 bit
		48 kHz/24 bit	48 kHz/24 bit
		96 kHz/16 bit	48 kHz/16 bit
		96 kHz/20 bit	48 kHz/20 bit
		96 kHz/24 bit	48 kHz/24 bit
	DTS	Bitstream/—	—
	MPEG2	Bitstream/48 kHz/16 bit	48 kHz/16 bit
VIDEO CD	MPEG1	44.1 kHz/16 bit	44.1 kHz/16 bit
Audio CD	Linear PCM 44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit
	DTS	Bitstream	(Noise)
HDD	Dolby Digital	Bitstream/48 kHz/20 bit	48 kHz/20 bit
	Linear PCM 48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit
DVD-RAM/ R/RW	Dolby Digital	Bitstream/48 kHz/20 bit	48 kHz/20 bit
	Linear PCM 48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit
	MPEG2	Bitstream/48 kHz/16 bit	48 kHz/16 bit
CD-R/RW	MP3/WMA	44.1 kHz or 32 kHz or 48 kHz / 16 bit	

• “DVD video disc” above does not include DVD-R/RW discs recorded on this recorder.

• Do not select a connection or setting indicated as “Noise” in the above list.

\* “HDMI-Auto” can output bitstream signals from the BISTREAM/PCM jack and the HDMI OUTPUT jack only when the connected device is equipped with bitstream decoder.

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# Error codes on the display window

The recorder display shows error codes in addition to the message screen.

Main examples are as follows.

The “\*\*\*” in the “ERR - \*\*\*” message indicates an error code. To delete this display, press DISPLAY button on the remote control.

Error code	Description	
ERR-01	Error detected in the physical format.	
ERR-10	Exceeded volume detected.	• When creating a DVD-Video
ERR-11	Exceeded number of titles detected.	
ERR-12	Exceeded number of chapters detected.	
ERR-13	Copy protection information detected.	
ERR-14	DVD disc access error detected.	
ERR-15	Other errors detected.	
ERR-16	HDD access error detected.	
ERR-17	Wide image recorded at 1.4 Mbps detected.	
ERR-18	Different aspects detected in the same part.	
ERR-19	Different resolutions detected in the same part.	
ERR-1A	Different sound quality modes detected in the same part.	
ERR-1B	Invalid control information detected.	
ERR-1C	Parts created in other recorder.	
ERR-1D	Parts created with “DVD compatible mode = Off” detected.	
ERR-1E	Invalid parts detected.	
ERR-1F	Unexpected error detected.	
ERR-2E	Menu encode error detected.	• When creating a DVD-Video • When recording on DVD-R/RW • When dubbing to DVD-R/RW
ERR-2F	Overflow of the menu size detected.	
ERR-30	Exceeded maximum number of menus detected.	
ERR-31	Recovery writing executed from compatibility of drive and disc.	
ERR-32	Incompatibility of disc format detected.	• When recording on DVD-R/RW
ERR-33	Disc protected.	
ERR-34	Disc protected or system control data error detected.	
ERR-35	Exceeded volume in disc budget calculation detected.	
ERR-36	Recording failed. (Title not saved.)	
ERR-37	Recording failed. (Title saved.)	
ERR-38	Writing failed. (Title not reserved)	
ERR-39	Writing failed. (Title saved.)	
ERR-3A	Unexpected error detected.	
ERR-3B	HDMI connection errors detected.	
ERR-3C		
ERR-3D		
ERR-3E		
ER-7000	Possible error detected in the HDD.	
ER-000C	Turning on the power failed.	
ER-FAN	An irregular stop of the ventilation fan detected.	

## Note

- If you find an error code other than listed above, consult your nearest TOSHIBA dealer.

# Recording duration

Sound rate  Picture quality rate	DD1 (192kHz)				DD2 (384kHz)				L-PCM				Remarks
	HDD		DVD-RAM		HDD		DVD-RAM		HDD		DVD-RAM		
	Hour	Minute	Hour	Minute	Hour	Minute	Hour	Minute	Hour	Minute	Hour	Minute	
1.0	445	56	08	04	386	14	06	59	214	09	03	51	
1.4	337	18	06	06	301	59	05	27	185	28	03	20	
2.0	241	38	04	21	222	57	04	01	152	18	02	44	Picture quality rate for LP with D/M2.
2.2	222	14	04	00	206	20	03	43	144	21	02	35	Picture quality rate for LP with D/M1.
2.4	205	43	03	42	192	01	03	27	137	12	02	27	
2.6	191	29	03	26	179	34	03	13	130	43	02	20	
2.8	179	06	03	13	168	38	03	02	124	49	02	14	
3.0	168	13	03	01	158	57	02	51	119	26	02	08	
3.2	158	35	02	51	150	19	02	42	114	30	02	02	
3.4	149	59	02	41	142	34	02	33	109	57	01	57	
3.6	142	17	02	33	135	35	02	25	105	45	01	53	
3.8	135	19	02	25	129	15	02	19	101	51	01	49	
4.0	129	01	02	18	123	29	02	12	98	14	01	45	
4.2	123	16	02	12	118	13	02	07	94	52	01	41	
4.4	118	01	02	06	113	22	02	01	91	44	01	38	Picture quality rate for SP with D/M2.
4.6	113	11	02	01	108	55	01	56	88	47	01	34	Picture quality rate for SP with D/M1.
4.8	108	44	01	56	104	47	01	52	86	01	01	31	
5.0	104	38	01	52	100	58	01	48	83	26	01	29	
5.2	100	49	01	48	97	25	01	44	80	59	01	26	
5.4	97	16	01	44	94	06	01	40	78	41	01	23	
5.6	93	58	01	40	91	00	01	37	76	30	01	21	
5.8	90	53	01	37	88	06	01	34	74	27	01	19	
6.0	88	00	01	34	85	23	01	31	72	30	01	17	
6.2	85	17	01	31	82	50	01	28	70	39	01	15	
6.4	82	44	01	28	80	25	01	25	68	53	01	13	
6.6	80	20	01	25	78	09	01	23	67	13	01	11	
6.8	78	04	01	23	76	00	01	20	65	37	01	09	
7.0	75	55	01	20	73	58	01	18	64	06	01	07	
7.2	73	53	01	18	72	03	01	16	62	39	01	06	
7.4	71	58	01	16	70	13	01	14	61	15	01	04	
7.6	70	09	01	14	68	29	01	12	59	56	01	03	
7.8	68	25	01	12	66	49	01	10	58	40	01	02	
8.0	66	46	01	10	65	15	01	09	57	26	01	00	Manual maximum setting for L-PCM.
8.2	65	11	01	09	63	45	01	07					
8.4	63	41	01	07	62	18	01	06					
8.6	62	15	01	05	60	56	01	04					
8.8	60	53	01	04	59	37	01	03					
9.0	59	34	01	03	58	22	01	01					
9.2	58	19	01	01	57	09	01	00					Maximum value for the manual mode.

- The recording durations listed above are for reference purposes only and are not guaranteed. Recording durations may vary.
- The recording durations for DVD-RAM discs listed above are applicable to DVD-RAM discs that have been initialized. Actual recording duration may vary depending on the disc used.
- If you subtract the actual recording duration from the duration listed in this table, the calculated time period does not represent the remaining time.
- The consumption of space may vary depending on the picture and sound conditions of the recorded content.
- Use the remaining disc space display feature to see the remaining space in the HDD and a DVD-RAM disc.
- One continuous recording cannot exceed in any case 9 hours.
- The number of titles cannot exceed 99 for a DVD-RAM/R/RW disc or 396 for the HDD. If the number of recorded titles reaches these limits, you cannot record even if there is a residual quantity.

For **□□ D /M1** and **□□ D /M2**, the digital recording technology for consumer products of Dolby Laboratories is used. Setting 1 (**□□ D /M1**) records in Dolby Digital at 192 kbps, and Setting 2 (**□□ D /M2**) records at 384 kbps.

# Language Code List

**Table of languages and their abbreviations**

Abbreviation	Language	Abbreviation	Language	Abbreviation	Language
---	No alternate language	GN	Guarani	PT	Portuguese
CHI (ZH)	Chinese	GU	Gujarati	QU	Quechua
DUT (NL)	Dutch	HA	Hausa	RM	Rhaeto-Romance
ENG (EN)	English	HI	Hindi	RN	Kirundi
FRE (FR)	French	HR	Croatian	RO	Rumanian
GER (DE)	German	HU	Hungarian	RU	Russian
ITA (IT)	Italian	HY	Armenian	RW	Kinyarwanda
JPN (JA)	Japanese	IA	Interlingua	SA	Sanskrit
KOR (KO)	Korean	IE	Interlingue	SD	Sindhi
MAY (MS)	Malay	IK	Inupiak	SG	Sango
SPA (ES)	Spanish	IN	Indonesian	SH	Serbo-Croatian
AA	Afar	IS	Icelandic	SI	Singhalese
AB	Abkhazian	IW	Hebrew	SK	Slovak
AF	Afrikaans	JI	Yiddish	SL	Slovenian
AM	Amharic	JW	Javanese	SM	Samoan
AR	Arabic	KA	Georgian	SN	Shona
AS	Assamese	KK	Kazakh	SO	Somali
AY	Aymara	KL	Greenlandic	SQ	Albanian
AZ	Azerbaijani	KM	Cambodian	SR	Serbian
BA	Bashkir	KN	Kannada	SS	Siswati
BE	Belorussian	KS	Kashmiri	ST	Sesotho
BG	Bulgarian	KU	Kurdish	SU	Sundanese
BH	Bihari	KY	Kirghiz	SV	Swedish
BI	Bislama	LA	Latin	SW	Swahili
BN	Bengali, Bangla	LN	Lingala	TA	Tamil
BO	Tibetan	LO	Laotian	TE	Telugu
BR	Breton	LT	Lithuanian	TG	Tajik
CA	Catalan	LV	Latvian, Lettish	TH	Thai
CO	Corsican	MG	Malagasy	TI	Tigrinya
CS	Czech	MI	Maori	TK	Turkmen
CY	Welsh	MK	Macedonian	TL	Tagalog
DA	Danish	ML	Malayalam	TN	Setswana
DZ	Bhutani	MN	Mongolian	TO	Tongan
EL	Greek	MO	Moldavian	TR	Turkish
EO	Esperanto	MR	Marathi	TS	Tsonga
ET	Estonian	MT	Maltese	TT	Tatar
EU	Basque	MY	Burmese	TW	Twi
FA	Persian	NA	Nauru	UK	Ukrainian
FI	Finnish	NE	Nepali	UR	Urdu
FJ	Fiji	NO	Norwegian	UZ	Uzbek
FO	Faroese	OC	Occitan	VI	Vietnamese
FY	Frisian	OM	(Afan) Oromo	VO	Volapük
GA	Irish	OR	Oriya	WO	Wolof
GD	Scottish Gaelic	PA	Panjabi	XH	Xhosa
GL	Galician	PL	Polish	YO	Yoruba
		PS	Pashto, Pushto	ZU	Zulu

# Specification

## ■ Power requirement during operation

33.0W

## ■ Power requirement at standby

17.2W (Front panel display: on)

15.1W (Front panel display: off)

## ■ Power supply

120V AC, 60 Hz

## ■ Mass

5.8kg

## ■ External dimension

Width 434 x Height 81 x Depth 339mm

## ■ Incoming channels

TV: 2-69CH, Cable:1-125CH

## ■ Antenna input/output terminal

VHF/UHF: 75Ω, F Connector

## ■ Signal system

Standard NTSC Color TV system

## ■ Laser

Semiconductor laser, Wavelength: 650nm/780nm

## ■ Format

DVD-Video format

## ■ Image recording system

MPEG2

## ■ Sound recording system

Dolby Digital M1, M2, Linear PCM

## ■ Internal hard disc

250 GB

## ■ VIDEO input

1.0Vp-p (75Ω), Sync signal negative,

Pin jack x 3 systems, 2 at rear, 1 in front

## ■ VIDEO output

1.0Vp-p (75Ω), Sync signal negative,

Pin jack x 1 system, 1 at rear

## ■ S-VIDEO input

(Y) 1.0Vp-p (75Ω), Sync signal negative,  
Mini DIN4 Pin x 3 systems

(C) 0.286Vp-p (75Ω), 2 at rear, 1 in front

## ■ S-VIDEO output

(Y) 1.0Vp-p (75Ω), Sync signal negative,  
Mini DIN4 Pin x 2 systems

(C) 0.286Vp-p (75Ω), 1 at rear

## ■ COMPONENT output (Y, P<sub>B</sub>, P<sub>R</sub>)

Y output (green), 1.0Vp-p (75Ω),

Sync signal negative, Pin jack x 1 system

P<sub>B</sub>, P<sub>R</sub> output (blue, red), 0.7Vp-p (75Ω),

Pin jack x 1 system each

## ■ AUDIO input

2.0V (rms), 22kΩ or above, pin jack

(L, R) x 3 systems

2 at rear, 1 in front

## ■ AUDIO output

2.0V (rms), 2.2kΩ or below, pin jack

(L, R) x 1 systems

1 at rear

## ■ DIGITAL AUDIO OUTPUT BITSTREAM/PCM (OPTICAL terminal)

Optical connector x 1 system

## ■ G-LINK jack

This is for connection of the supplied G-LINK® cable only.

## ■ HDMI output

This is for connection of an HDMI cable.

## ■ DV input

4-pin x 1 in front

## ■ LAN port

100BASE-TX/10BASE-T x 1

## ■ Remote control

Wireless remote control (SE-R0199)

## ■ Operating conditions

Temperature: 41°F ~ 95°F (5°C ~ 35°C),

Position: Horizontal

## ■ Clock display

12 hour digital display

## ■ Clock accuracy

Quartz (monthly deviation: approximately ±30 seconds)

- Designs and specifications are subject to change without notice.
- This model may not be compatible with features and/or specifications that may be added in the future.
- The Illustrations and screens described in this manual may be exaggerated or simplified for easy recognition and may be slightly different from the actual unit.
- This model complies with the above specifications.



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# Memo

Introduction

Recording

Playback

Editing

Library

Network Navi

Function setup

Others

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# *Memo*

